Sun-Glo
CHAMPION
SHUFFLEBOARD PRODUCTS
Est. 1935

# March 2022 Combined SDS for
# - #1.5 Pro Series
# - #2 Tournament Gold
# - #3 Brown Bear

pages 2- 8 - Shell-Pro Inc - updated Nov 2021 (this is a nut product)
pages 9- 17 - StyroChem Inc - updated Jan 2018
pages 18 -31- StatiKil - updated May 2019 (trace amounts)
pages 32- 38 - Mineral Spirits - updated Nov 2021 (trace amounts)

# Safety Data Sheet

**Issue Date:** 01-May-2013 **Revision Date:** 01-Nov-2021 **Version** 5

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** Walnut Shell Grit & Flour

**Other means of identification**

**SDS #** SPI-002-OSHA

**Synonyms** Ground Walnut Shell (All grades and sizes - Coarse, Medium and Fine)
Shelblast, Nut Plug
Glufil (WF-7, WF-5 and WF-2)
Gulfil AW.

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For industrial use.

**Uses Advised Against** Walnut Shell may contain trace amounts of walnut proteins that have been known to cause allergic reaction. Individuals with known or suspected allergies to walnut protein should be made aware of product contents prior to use.

**Details of the supplier of the safety data sheet**

**Supplier Address**
ShellPro, Inc.
P.O. Box 2680
Lodi, CA 95241

**Emergency Telephone Number**

**Company Phone Number** 1-209-727-0707
**Emergency Telephone (24 hr)** 1-209-727-0707

## 2. HAZARDS IDENTIFICATION

**Appearance** Grit: Light brown granules
Flour: Light brown powder

**Physical State** Solid

**Odor** No odor

**Classification**

| |
|---|
| Combustible Dust |

**Signal Word**
**Warning**

**Hazard Statements**
May form combustible dust concentrations in air

**Unknown Acute Toxicity**
100% of the mixture consists of ingredient(s) of unknown toxicity

**Other Hazards**
Direct contact with eyes may cause temporary irritation.
Walnut Shell may contain trace amounts of walnut proteins that have been known to cause allergic reaction.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** Ground Walnut Shell (All grades - Coarse, Medium and Fine)
Shelblast
Glufil (WF-7, WF-5 and WF-2)
Gulfil AW.

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Natural Walnut Shell | 84012-43-1 | 100 |

## 4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash with soap and water.

**Inhalation** Remove to fresh air. Seek medical attention if irritation persists.

**Ingestion** None under normal use conditions.

**Most important symptoms and effects**

**Symptoms** Direct contact with eyes or skin may cause temporary irritation. Inhalation of dust may cause mechanical irritation to the respiratory tract. Walnut Shell may contain trace amounts of walnut proteins that have been known to cause allergic reaction.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**Specific Treatment** In case of accident or if you feel unwell, seek immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**
If improperly handled, stored, and/or exposed to an ignition source, this material may burn. Dust can form an explosive mixture with air.

**Hazardous Combustion Products** None.

**Sensitivity to Static Discharge** AVOID GENERATING DUST. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal Precautions** | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). |
| **Environmental Precautions** | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |

**Methods and material for containment and cleaning up**

| | |
|---|---|
| **Methods for Containment** | Prevent further leakage or spillage if safe to do so. |
| **Methods for Clean-Up** | Sweep up and shovel into suitable containers for disposal. Spilled material can be a slipping hazard. Avoid generating dust. Eliminate flames, sparks, excessive temperatures and oxidizing agents. Use only non-sparking tools. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

| | |
|---|---|
| **Advice on Safe Handling** | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Use only in well-ventilated areas. Avoid generation of dust. Ensure that dust does not accumulate on surfaces. |

**Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Storage Conditions** | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store away from heat, sparks, flame. |
| **Incompatible Materials** | Oxidizing agents. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

| | |
|---|---|
| **Engineering Controls** | Provide local ventilation if dust is generated. Explosion-proof general and local exhaust ventilation. Use explosion proof electrical equipment for very high dust levels. Ensure ventilation and dust-handling systems prevent the escape of dust into work areas and there is no leakage from equipment. |

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/Face Protection** | Safety glasses. Goggles. Face protection shield. |
| **Skin and Body Protection** | No special technical protective measures are necessary. |
| **Respiratory Protection** | Nuisance dust mask 3M type 8710 or equivalent. |

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Ensure that medical personnel are aware of the materials(s) involved, and take precautions to protect themselves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Solid | | |
| **Appearance** | Grit: Light brown granules Flour: Light brown powder | **Odor** | No odor |
| **Color** | Light brown | **Odor Threshold** | Not determined |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | 4-5 | |
| **Melting Point/Freezing Point** | Not applicable | |
| **Boiling Point/Boiling Range** | Not applicable | |
| **Flash Point** | 193 °C / 380 °F | |
| **Evaporation Rate** | Not applicable | |
| **Flammability (Solid, Gas)** | Not determined | |
| **Upper Flammability Limits** | Not determined | |
| **Lower Flammability Limit** | Not determined | |
| **Vapor Pressure** | Not applicable | |
| **Vapor Density** | Not applicable | |
| **Specific Gravity** | 1.2-1.35 | (1=Water) |
| **Water Solubility** | Not applicable | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | 243 °C / 470 °F | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Not determined | |
| **Explosive Properties** | Dust can form an explosive mixture with air | |
| **Oxidizing Properties** | Not determined | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Excessive heat. Ignition sources.

**Incompatible Materials**
Oxidizing agents.

**Hazardous Decomposition Products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

| | |
|---|---|
| **Product Information** | Product does not present an acute toxicity hazard based on known or supplied information |
| **Eye Contact** | Avoid contact with eyes. |
| **Skin Contact** | Not normally considered a hazard. |
| **Inhalation** | Avoid inhalation of dust. |
| **Ingestion** | Not an expected route of exposure. |

**Component Information** Not available

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**
Not determined

**Unknown Acute Toxicity** 100% of the mixture consists of ingredient(s) of unknown toxicity.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
The product is not expected to be hazardous to the environment.

**Component Information** Not available

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**
Not determined

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

| | |
|---|---|
| **Disposal of Wastes** | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| **Contaminated Packaging** | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|---|---|
| Natural Walnut Shell | | X | | Present | | | X | | | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

**US Federal Regulations**

**SARA 313**
Not determined

**US State Regulations**

**U.S. State Right-to-Know Regulations**
Not determined

## 16. OTHER INFORMATION

**Additional Product Information** Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | Not determined | Not determined | Not determined | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical Hazards** | **Personal Protection** |
| | Not determined | Not determined | Not determined | Not determined |

**Issue Date:** 01-May-2013
**Revision Date:** 01-Nov-2017
**Revision Note:** Updated safety precautions for allergens

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**

## 1. Identification of the Substance / Mixture and the Company / Undertaking

### *1.1 Product Identifier*

Product Name: StyroChem Polystyrene – Grade C19
Chemical Name: Polystyrene
Synonyms: Styrene homopolymer, poly(phenylethene), or PS
CAS No.: 9003-53-6

### *1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against*

Raw material for injection molding or extrusion of food packaging, toys, and other articles.

### *1.3 Details of the Supplier of the Safety Data Sheet*

Supplier:

StyroChem
19250 Baie d'Urfé, QC H9X 3R8
Canada

Logistics & Customer Service Inquiries:

+1 (514) 457-3226 extension 210
customerservice@styrochem.ca

Information In Case of Emergency:

+1 (613) 996-6666 Canutec
+1 (514) 457-3227 StyroChem

## 2. Hazards Identification

### *2.1 Classification of the Substance or Mixture*

According to Regulation (EC) No. 1272/2008 [CLP]: No need for classification according to GHS criteria for this product.

### *2.2 Label Elements:*

According to Regulation (EC) No. 1272/2008 [CLP]

Hazard Statement: None
Hazard Pictogram: None
Signal Word: None
Precautionary Statements: None

### *2.3 Other Hazards*

Molten material may cause severe burns.
Dust may irritate skin, eyes and respiratory system.
Danger of dust explosion when material is in a fine dusty form, or when ground into small particle size

## 3. Composition/Information on Ingredients

### *3.1 Substances*

Contains no hazardous ingredient per European Regulation (EC) No. 1907/2006.

| Hazardous Ingredient(s) | CAS No. | EC No. | % by Wt. | (EC) No. 1272/2008 Hazard Pictogram(s), Hazard Categories and Hazard Codes |
|---|---|---|---|---|
| No Classifiable Hazardous Ingredients | - | - | - | - |

## 4. First Aid Measures

### *4.1 Description of First Aid Measures*

No special precautions necessary.

General Information:
Possible minor skin or respiratory irritant.

If inhaled:
Remove to fresh air.

Skin contact:
Molten material may cause severe burns. After contact with the molten product, cool rapidly with cold water. **Do not** pull solidified product off skin. Seek immediate medical attention.

Eye contact:
If contact with eyes occurs, flush eyes (and under eye lids) immediately with running water for several minutes. If symptoms persist, seek medical attention.

Ingestion:
Unlikely to be hazardous if ingested.

### *4.2 Most Important Symptoms and Effects, Both Acute and Delayed:*

Symptoms: Eye irritation, skin irritation (redness) may occur with contact

### *4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:*

Treatment: Treat according to symptoms (decontamination, vital functions), move patient to fresh air

## 5. Fire Fighting Measures

### *5.1 Extinguishing media:*

Suitable extinguishing media: $CO_2$ (carbon dioxide), powder or water spray. Sand or earth may be used for small fires only.

Do not use a water jet.

### *5.2 Special hazards caused by the substance or mixture*

Carbon monoxide

Under certain fire conditions, traces of other toxic gases cannot be excluded

### *5.3 Advice for Firefighters*

Wear self-contained respiratory protective device.

Additional information:

Cool endangered receptacles with water spray.

Collect contaminated fire fight water separately. It must not enter sewage.

## 6. Accidental Release Measures

### *6.1 Personal precautions, protective equipment and emergency procedures:*

Beads on the floor could present a slipping hazard. Good housekeeping practices should be followed to avoid this hazard.

Avoid formation and inhalation of dust.

Wear suitable personal protective equipment for eye and face protection.

### *6.2 Environmental precautions:*

Do not allow to enter drains or waterways.

Inform respective authorities in case of seepage into water course or sewage system.

### *6.3 Methods and material for containment and cleaning up:*

Pick up mechanically (sweeping / shovel) or use vacuum where practical.

Dispose of material collected according to regulations.

Ensure adequate ventilation and earthing.

### *6.4 Reference to other sections:*

See also Sections 8 and 13

## 7. Handling and Storage

### *7.1 Precautions for safe handling:*

No smoking
Ensure good ventilation of workplace.
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Use appropriate industrial vacuum cleaners or central vacuum systems approved for use in hazardous locations for dust removal.
Keep away from ignition sources.
Take precautionary measures to avoid static discharges. Product may charge electrostatically.
Ground all equipment containing material.
Keep container tightly sealed when not in use.
The molten form can cause burns when in contact with skin or eyes.

### *7.2 Conditions for safe storage, including any incompatibilities:*

Ensure good ventilation of storage area.
Protect against moisture, direct sunlight and heat.
Keep way form ignition sources.
No smoking.
Keep packaging tightly sealed and store in cool, dry, well ventilated location.
Combustible materials and strong oxidizing agents should not be stored close by.

### *7.3 Specific end use(s):*

For use in manufacture of injection molded or extruded polystyrene articles.

## 8. Exposure Controls/Personal Protection

### *8.1 Control Parameters*

*8.1.1 Threshold Limits*

| Country | Chemical (CAS) | Occupational Exposure Limits (Time Weighted Average for 8 hrs.) | | Reference |
|---|---|---|---|---|
| | | ppm | mg/m$^3$ | |
| USA | Dust (Respirable Dust) Not Otherwise Regulated | | 5 | OSHA |
| Canada | | | | |
| British Colombia | "Nuisance Dust" | | 3 | OHS Regulations, Guidelines Part 5 |
| Quebec | Particulate Not Otherwise Classified | | 10 | Regulation Respecting Occupational Health and Safety, Schedule 1 Part 1 |
| Saskatchewan | Particles (Insoluble or Poorly Soluble) Not Otherwise Specified | | 3 | The Occupational Health and Safety Regulations 1996, Table 21 |

| | | | | |
|---|---|---|---|---|
| Other Provinces & Territories | Particulates Not Otherwise Rgulated, Respirable | | 3 | ACGIH |
| Germany | Non Specified (Inert) Dust | | 3 | Bundeministerium für Arbeit |
| France | Non Specified (Inert) Dust | | 5 | Ministère de L'Industrie (RGIE) |
| Netherlands | Non Specified (Inert) Dust | | 5 | Ministerie van Sociale Zaken en Werkgelegenheid |
| Spain | Non Specified (Inert) Dust | | 3 | Instrucciones de Técnicas Complementarias (ITC) Orden ITC/2585/2007 |
| United Kingdom | Non Specified (Inert) Dust | | 4 | Health and Safety Executive (HSE) Guidance Note EH40/2005 |

*8.1.2 Sampling methods:*

| Chemical | Organization | Protocol |
|---|---|---|
| Particulates Not Otherwise Regulated, Respirable | NIOSH | NMAM 0600 |
| Particulates Not Otherwise Regulated (Respirable Fraction) | OSHA | PV2121 |

*8.1.3 Applicable limit values when using the substance or mixture as intended*

If limit values are applicable and available these will be listed below.

*8.1.4 DNEL/PNEC values*

Not established

### *8.2 Exposure Controls*

*8.2.1 Appropriate engineering controls:*

Use in adequately ventilated areas.

*8.2.2 Individual protection measures:*

Do not eat, drink, or smoke while working with material.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures are to be adhered to when handling chemicals.

8.2.2.1.1 Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

8.2.2.1.2 Hand protection:

Thermally insulated glove material required when handling hot material.

8.2.2.1.3 Eye protection:

Tightly sealed goggles

8.2.2.1.4 Skin and body protection:

Protective work clothing

*8.2.3 Environmental exposure controls:*

Prevent material from entering any drains.

## 9. Physical and Chemical Properties

| |
|---|
| **General Information**<br>*Form:* Beads<br>*Color:* Colorless to white<br>*Odor:* No perceptible odor<br>*pH value:* Not soluble |
| **Change in Condition:**<br>*Melting point / melting range:* >132°C (270°F)<br>*Boling point / boiling range:* Undetermined, the substance decomposes.<br>*Flash point:* Vapors are flammable, >350°C<br>*Evaporation rate:* not available |
| **Relative density:** 640 kg/$m^3$ |
| **Solubility (water):** Insoluble<br>**Solubility (other):** Soluble in aromatic hydrocarbons, halogenated solvents and ketones |
| **Partition coefficient (n-octanol/water):** Not available |
| **Auto-ignition temperatures:** ca. 490°C |
| **Decomposition temperature:** not available |
| **Viscosity:** not established |
| **Explosive properties:** Dust explosion danger if in a fine dusty form or when ground into small particles |
| **Oxidizing properties:** Not oxidizing |

### *9.2 Other information:*

Bulk density: approximately 640 kg/$m^3$ (about 40 pounds per cubic foot)

## 10. Stability and Reactivity

### *10.1 Reactivity:*

Stable under normal use conditions as prescribed

### *10.2 Chemical stability:*

Stable under normal use conditions as prescribed

### *10.3 Possibility of hazardous reactions:*

Dust explosion danger if in a fine dusty forms or when ground into small particles.

### *10.4 Conditions to avoid:*

Keep way from heat, ignition sources and direct sunlight. Avoid dust generation.

### *10.5 Incompatible materials:*

Avoid strong oxidizing agents

### *10.6 Hazardous decomposition products:*

Carbon monoxide and carbon dioxide, flammable gases/vapors.

## 11. Toxicological Information

### *11.1 Information on Toxicological Effects*

*11.1.1 Acute toxicity:*

Low acute toxicity

Low oral toxicity, $LD_{50}$ (oral): >2000 mg/kg

Low skin acute toxicity

Low eye acute toxicity

*11.1.2 Irritation:*

Dust can be irritating to the eyes, skin and air passages, may cause redness.

*11.1.3 Corrosivity:*

Not classified

*11.1.4 Sensitization:*

Not a skin sensitizer

*11.1.5 Repeated dose toxicity:*

Repeated exposure to dusts may cause irritation to skin, eyes and respiratory system.

*11.1.6 Carcinogenicity:*

No data.

*11.1.7 Mutagenicity:*

No data.

*11.1.8 Toxicity for reproduction:*

No data.

*11.1.9 Route of exposure:*

Inhalation and ingestion

For polystyrene, no adverse health effects are expected if handled as recommended with suitable precautions.

## 12. Ecological Information

### *12.1 Toxicity*

*12.1.1 Aquatic toxicity*

Non-toxic to aquatic life.

### *12.2 Persistence and degradability*

Polystyrene is not readily biodegradable. Polystyrene is susceptible to UV degradation by exposure to sunlight. Polystyrene can be mechanically separated from water.
Integrated environmental half-life expected to be ≥100 days.

***12.3 Bioaccumulative potential:***

Polystyrene has a low potential for bioaccumulation and is not readily bioavailable due to its consistency and insolubility in water.

***12.4 Mobility in soil:***

Polystyrene beads sink in fresh water, may float or sink in salt water and have low mobility in soil.

***12.5 Results of PBT and vPvB assessment:***

Polystyrene does not fulfill the criteria for PBT (Persistent/Bioaccumulative/Toxic) or vPvB (very Persistent/very Bioaccumulative).

***12.6 Other adverse effects:***

Polystyrene contains no ozone depleting substances listed in Regulation (EC) 1005/2009.

## 13. Disposal Considerations

***13.1 Waste treatment methods***

Recover or recycle if possible.
Do not dispose of or allow entry into sewage systems.
Dispose of in compliance with local and national regulations.

## 14: Transport Information

| | |
|---|---|
| ***14.1 UN Number:*** | Not classified as dangerous for transport |
| ***14.2 UN proper shipping name:*** | POLMERIC BEADS |
| ***14.3 Transport hazard class(es):*** | Not applicable |
| ***14.4 Packaging group:*** | Not applicable |
| ***14.5 Environmental hazards:*** | Not applicable |
| ***14.6 Special precautions for users:*** | Not applicable |

***14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code***

Not applicable

## 15: Regulatory Information

***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:***

US CFR 21 §177. 1640 Polystyrene and Rubber Modified Polystyrene

US CFR 21 §178.3010 Indirect Food Additives; Adjuvants, Production Aids and Sanitizers
US TSCA – Polystyrene is not a reportable substance per 40 CFR 711.6(a)(1)
CONEG Legislative Model for Policies on Packaging
California Safe Drinking Water and Toxic Enforcement Act of 1986 (AKA: Proposition 65)
California H&SC §25214.11-25214.26 "Toxics in Packaging Act"
EU Framework Reg. (EC) No. 1935/2005 Materials and Articles Intended to Come Into Contact with Food
EU Commission Regulations (EU) No. 10/2011 Plastic Materials and Articles Intended to Come Into Contact with Food
EU Directive 94/62/EC Packaging and Packaging Waste
EU Directive 2002/95/EC Restriction of Hazardous Substances
EU Directive 2012/19/EU Waste of Electrical and Electronic Equipment
EU Regulations (EC) No. 1272/2008 Registration, Evaluation and Authorization of Chemicals (REACH)

***15.2 Chemical Safety Assessment:***

Not available

## 16: Other Information:

This Safety Data Sheet was prepared in accordance with European Community Regulation (EC 1907/2006 (REACH), 1272/2008 and 453/2010.

The following sections contain revisions or new statements: 1-16

Full text of acronyms, classifications, including the hazard classes and the hazard statements, and precautionary statements:

| | |
|---|---|
| DNEL | Derived no effect level |
| PNEC | Predicted no effect concentration |
| DMEL | Derived minimum effect level |
| LD50 | Lethal dose 50, the amount of a toxic that will kill 50% of a population |
| LC50 | Lethal concentration 50, the concentration of a toxic that will kill 50% of a population |
| EC50 | Effective concentration 50, half maximal effective concentration |
| PBT | Persistent, bioaccumulative and toxic |
| vPvB | Very persistent and very bioaccumulative |

# SAFETY DATA SHEET

C27376000

## Section 1. Identification

**Product name** : STATIKIL® Statik Neutralizer

**Product code** : C27376000

**Other means of identification** : Not available.

**Product type** : Aerosol.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Manufacturer** : Mfd. for STATIKIL INC.
5186 New Haven Circle
Barberton, Ohio 44203

**Emergency telephone number of the company** : 216-566-2917

**Product Information Telephone Number** : 330-564-4000

**Regulatory Information Telephone Number** : 216-566-2902

**Transportation Emergency Telephone Number** : 800-424-9300

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
TOXIC TO REPRODUCTION (Fertility) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.5%

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging fertility.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness and dizziness.

## Section 2. Hazards identification

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling.

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

**Disposal** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

| Ingredient name | % by weight | CAS number |
|---|---|---|
| 2-Propanol | 50.0 | 67-63-0 |
| Methyl Acetate | 15.3 | 79-20-9 |
| Propane | 13.0 | 74-98-6 |
| Hexane | 8.9 | 110-54-3 |
| 2-Methylpentane | 4.1 | 107-83-5 |
| 3-Methylpentane | 1.5 | 96-14-0 |
| 2,3-Dimethylbutane | 1.3 | 79-29-8 |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Section 4. First aid measures

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See toxicological information (Section 11)**

## Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

## Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits |
|---|---|
| 2-Propanol | **ACGIH TLV (United States, 4/2014).**<br>TWA: 200 ppm 8 hours.<br>STEL: 400 ppm 15 minutes.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 400 ppm 10 hours.<br>TWA: 980 mg/m³ 10 hours.<br>STEL: 500 ppm 15 minutes.<br>STEL: 1225 mg/m³ 15 minutes.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 400 ppm 8 hours.<br>TWA: 980 mg/m³ 8 hours. |
| Methyl Acetate | **ACGIH TLV (United States, 4/2014).**<br>TWA: 200 ppm 8 hours.<br>TWA: 606 mg/m³ 8 hours.<br>STEL: 250 ppm 15 minutes.<br>STEL: 757 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 200 ppm 10 hours.<br>TWA: 610 mg/m³ 10 hours.<br>STEL: 250 ppm 15 minutes.<br>STEL: 760 mg/m³ 15 minutes.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 200 ppm 8 hours.<br>TWA: 610 mg/m³ 8 hours. |
| Propane | **NIOSH REL (United States, 10/2013).**<br>TWA: 1000 ppm 10 hours.<br>TWA: 1800 mg/m³ 10 hours.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 1000 ppm 8 hours.<br>TWA: 1800 mg/m³ 8 hours. |
| Hexane | **ACGIH TLV (United States, 4/2014).**<br>**Absorbed through skin.**<br>TWA: 50 ppm 8 hours.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 50 ppm 10 hours.<br>TWA: 180 mg/m³ 10 hours.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 500 ppm 8 hours.<br>TWA: 1800 mg/m³ 8 hours. |
| 2-Methylpentane | **ACGIH TLV (United States, 4/2014).**<br>TWA: 500 ppm 8 hours.<br>TWA: 1760 mg/m³ 8 hours.<br>STEL: 1000 ppm 15 minutes.<br>STEL: 3500 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 100 ppm 10 hours.<br>TWA: 350 mg/m³ 10 hours.<br>CEIL: 510 ppm 15 minutes.<br>CEIL: 1800 mg/m³ 15 minutes. |
| 3-Methylpentane | **ACGIH TLV (United States, 4/2014).**<br>TWA: 500 ppm 8 hours.<br>TWA: 1760 mg/m³ 8 hours.<br>STEL: 1000 ppm 15 minutes.<br>STEL: 3500 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 100 ppm 10 hours.<br>TWA: 350 mg/m³ 10 hours.<br>CEIL: 510 ppm 15 minutes. |

## Section 8. Exposure controls/personal protection

| | |
|---|---|
| 2,3-Dimethylbutane | CEIL: 1800 mg/m³ 15 minutes.<br>**ACGIH TLV (United States, 4/2014).**<br>TWA: 500 ppm 8 hours.<br>TWA: 1760 mg/m³ 8 hours.<br>STEL: 1000 ppm 15 minutes.<br>STEL: 3500 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 100 ppm 10 hours.<br>TWA: 350 mg/m³ 10 hours.<br>CEIL: 510 ppm 15 minutes.<br>CEIL: 1800 mg/m³ 15 minutes. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Not available.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 9.1 (butyl acetate = 1)

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Lower: 1%
Upper: 16%

**Vapor pressure** : 13.5 kPa (101.325 mm Hg) [at 20°C]

**Vapor density** : 1.55 [Air = 1]

**Relative density** : 0.73

**Solubility** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (room temperature): <0.205 $cm^2/s$ (<20.5 cSt)
Kinematic (40°C (104°F)): <0.205 $cm^2/s$ (<20.5 cSt)

**Aerosol product**

**Type of aerosol** : Spray

**Heat of combustion** : 0.00003571 kJ/g

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| 2-Propanol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| Methyl Acetate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | >5 g/kg | - |
| Hexane | LC50 Inhalation Gas. | Rat | 48000 ppm | 4 hours |
| | LD50 Oral | Rat | 15840 mg/kg | - |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| 2-Propanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 100 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| Methyl Acetate | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| Hexane | Eyes - Mild irritant | Rabbit | - | 10 milligrams | - |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| 2-Propanol | - | 3 | - |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| 2-Propanol | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Propane | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Hexane | Category 3 | Not applicable. | Respiratory tract irritation and |

## Section 11. Toxicological information

| | | | |
|---|---|---|---|
| 2-Methylpentane | Category 3 | Not applicable. | Narcotic effects<br>Respiratory tract irritation and<br>Narcotic effects |
| 3-Methylpentane | Category 3 | Not applicable. | Respiratory tract irritation and<br>Narcotic effects |
| 2,3-Dimethylbutane | Category 3 | Not applicable. | Respiratory tract irritation and<br>Narcotic effects |

**Specific target organ toxicity (repeated exposure)**

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| 2-Propanol | Category 2 | Not determined | Not determined |
| Propane | Category 2 | Not determined | Not determined |
| Hexane | Category 2 | Not determined | Not determined |
| 2-Methylpentane | Category 2 | Not determined | Not determined |
| 3-Methylpentane | Category 2 | Not determined | Not determined |
| 2,3-Dimethylbutane | Category 2 | Not determined | Not determined |

**Aspiration hazard**

| Name | Result |
|---|---|
| Propane | ASPIRATION HAZARD - Category 1 |
| Hexane | ASPIRATION HAZARD - Category 1 |
| 2-Methylpentane | ASPIRATION HAZARD - Category 1 |
| 3-Methylpentane | ASPIRATION HAZARD - Category 1 |
| 2,3-Dimethylbutane | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value |
|---|---|
| Oral | 7553.9 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 2-Propanol | Acute LC50 1400000 µg/l Marine water | Crustaceans - Crangon crangon | 48 hours |
| | Acute LC50 4200 mg/l Fresh water | Fish - Rasbora heteromorpha | 96 hours |
| Methyl Acetate | Acute LC50 320000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Hexane | Acute LC50 2500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |

### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| 2-Propanol | - | - | Readily |

### Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Hexane | - | 501.187 | high |

**Mobility in soil**

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|---|---|---|---|---|---|
| **UN number** | UN1950 | UN1950 | UN1950 | UN1950 | UN1950 |
| **UN proper shipping name** | AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS, flammable | AEROSOLS |
| **Transport hazard class(es)** | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  |
| **Packing group** | - | - | - | - | - |
| **Environmental hazards** | No. | No. | No. | No. | No. |
| **Additional information** | **Special provisions** LIMITED QUANTITY | **Special provisions** LIMITED QUANTITY | **Special provisions** (ERG#126) | **Special provisions** LIMITED QUANTITY | **Emergency schedules (EmS)** LIMITED QUANTITY, F-D, S-U |

**Special precautions for user** : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

## Section 14. Transport information

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** :

**State regulations**

**California Prop. 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)**




**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.**

**The customer is responsible for determining the PPE code for this material.**

**Notice to reader**

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.**

## Section 16. Other information

# SAFETY DATA SHEET

## Klean Strip Odorless Mineral Spirits

Revision: 11/05/2021
Supersedes Revision: 08/05/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Klean Strip Odorless Mineral Spirits

**Company Name:** W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

**Phone Number:** (901)775-0100

**Web site address:** www.wmbarr.com

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346

**Information:** W.M. Barr Customer Service (800)398-3892

**Intended Use:** Paint, stain, and varnish thinning.

**Product Code:** GKSP94006P, QKSP94005, QKSP945, GKSP94006, GKSP94214

## 2. HAZARDS IDENTIFICATION

**Flammable Liquids, Category 3**
**Skin Corrosion/Irritation, Category 2**
**Specific Target Organ Toxicity (single exposure), Category 3**
**Aspiration Toxicity, Category 1**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:**
Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.

**GHS Precautionary Phrases:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep cool.

**GHS Response Phrases:**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see label.
Do NOT induce vomiting.
If skin irritation occurs, get medical advice/attention.
Take off contaminated clothing and wash before re-use.

**GHS Storage and Disposal Phrases:**
Store container tightly closed in well-ventilated place.
Store locked up.
Dispose of contents/container according to local, state and federal regulations.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

**Potential Health Effects (Acute and Chronic):** Acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact: Causes skin irritation. Defatting to the skin.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

**Medical Conditions Generally Aggravated By Exposure:** None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Hazardous Components (Chemical Name) | Concentration |
|---|---|---|
| 64742-47-8 | Hydrotreated light distillate (petroleum, mineral spirits) | 100.0 % |

## 4. FIRST AID MEASURES

**Emergency and First Aid Procedures:**

Inhalation:
If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

Skin contact:
Wash with soap and large quantities of water for at least 15 minutes. Seek medical attention if irritation from contact persists.

Eye contact:
Immediately flush eyes with water, remove nay contact lens, continue flushing with water for at least 15 minutes. Get medical attention.

Ingestion:
Do not induce vomiting. Call your poison control center, hospital emergency room, or physician immediately.

**Signs and Symptoms Of Exposure:** Primary routes of exposure:
Inhalation, ingestion, and dermal.

**Note to Physician:** Call your local poison control center for further instructions.

## 5. FIRE FIGHTING MEASURES

**Flammability Classification:** NFPA Class II

**Flash Pt:** > 105.80 F Method Used: TAG Closed Cup

**Explosive Limits:** LEL: .6 UEL: 5.5

**Autoignition Pt:** 456.80 F

**Suitable Extinguishing Media:** Use carbon dioxide, dry chemical powder, or foam.

**Fire Fighting Instructions:** Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

**Flammable Properties and Hazards:** No data available.

**Hazardous Combustion Products:** No data available.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Clean-up:
Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources, keep flares, smoking or flames out of hazard area.

Small spills:
Take up the spilled liquid with sand, earth, or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills:
Dike far ahead of spill for later disposal.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

**Precautions To Be Taken in Storing:** Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS # | Chemical Name | Jurisdiction | Recommended Exposure Limits | Notations |
|---|---|---|---|---|
| 64742-47-8 | Hydrotreated light distillate (petroleum, mineral spirits) | ACGIH TLV | TLV: 200 mg/m3 | |

| | |
|---|---|
| **Respiratory Equipment (Specify Type):** | For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors. |
| **Eye Protection:** | Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals. |
| **Protective Gloves:** | Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product. |
| **Other Protective Clothing:** | Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes. |
| **Engineering Controls (Ventilation etc.):** | Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering -- Stop -- ventilation is inadequate. Leave area immediately. |
| **Work/Hygienic/Maintenance Practices:** | A source of clean water should be available in the work area for flushing eyes and skin.<br>Do not eat, drink, or smoke in the work area.<br>Wash hands thoroughly after use. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical States:** | [ ] Gas [ X ] Liquid [ ] Solid |
| **Appearance and Odor:** | Colorless to light yellow<br>Solvent odor<br>Odor threshold not determined. |
| **pH:** | ND |
| **Melting Point:** | -72.40 F |
| **Boiling Point:** | 318.20 F - 354.20 F |
| **Flash Pt:** | > 105.80 F Method Used: TAG Closed Cup |
| **Evaporation Rate:** | < 1 (BuAC=1) |
| **Flammability (solid, gas):** | No data available. |
| **Explosive Limits:** | LEL: .6 UEL: 5.5 |
| **Vapor Pressure (vs. Air or mm Hg):** | 3 MM HG at 25.0 C |
| **Vapor Density (vs. Air = 1):** | 4.5 Air = 1 |
| **Specific Gravity (Water = 1):** | 0.78 |
| **Density:** | 6.5 |
| **Solubility in Water:** | Slight |
| **Solubility Notes:** | Very slightly soluble in the following materials: cold water. (1.5 g/l) |
| **Saturated Vapor Concentration:** | ND |

| | |
|---|---|
| **Octanol/Water Partition Coefficient:** | ND |
| **Percent Volatile:** | 100.0 % by weight. |
| **VOC / Volume:** | 780.0000 G/L |
| **Autoignition Pt:** | 456.80 F |
| **Decomposition Temperature:** | No data. |
| **Viscosity:** | ND |
| **Additional Physical Information** | Conductivity = <5 picosiemens/meter (unadditized)<br>ND = Not Determined |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability:** | Unstable [ ] Stable [ X ] |
| **Conditions To Avoid - Instability:** | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Do not store with strong oxidizing agents. |
| **Incompatibility - Materials To Avoid:** | Incompatible with strong oxidizing agents. |
| **Hazardous Decomposition or Byproducts:** | Thermal decomposition may produce carbon monoxide and carbon dioxide. |
| **Possibility of Hazardous Reactions:** | Will occur [ ] Will not occur [ X ] |
| **Conditions To Avoid - Hazardous Reactions:** | No data available. |

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **Toxicological Information:** | In animal studies utilizing mineral spirits containing up to 22% aromatics indicated that the acute central nervous system effects are reversible. Based on existing animal studies, the potential for persistent effects is not clear. |
| **Irritation or Corrosion:** | Primary dermal irritation studies (four hour exposure) in rabbits utilizing mineral spirits containing less than 2% aromatics resulted in slight to moderate skin irritation. In humans, mineral spirits have produced slight to moderate skin irritation particularly with evaporation from the skin is prevented.<br><br>Animal studies have demonstrated that mineral spirits produced mild respiratory tract irritation at elevated concentrations. Also, sensory respiratory tract irritation was evident by reduced breathing rates in the test animals in certain studies. |
| **Symptoms related to Toxicological Characteristics:** | Eye contact:<br>Adverse symptoms may include the following: pain or irritation watering redness<br><br>Inhalation:<br>Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of<br>coordination. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness<br><br>Skin contact:<br>Adverse symptoms may include the following: irritation redness dryness cracking<br><br>Ingestion:<br>Adverse symptoms may include the following: nausea or vomiting |

**Carcinogenicity/Other Information:** ACGIH A4 - Not Classifiable as a Human Carcinogen.

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|---|---|---|---|---|---|
| 64742-47-8 | Hydrotreated light distillate (petroleum, mineral spirits) | n.a. | n.a. | A4 | n.a. |

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:** This product has not been tested as a whole. Information below will be for individual ingredients.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose in accordance with applicable local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Paint related material
**DOT Hazard Class:** 3 FLAMMABLE LIQUID
**UN/NA Number:** UN1263 **Packing Group:** III




**Additional Transport Information:** The shipper may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

## 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|---|---|---|---|---|
| 64742-47-8 | Hydrotreated light distillate (petroleum, mineral spirits) | No | No | No |

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|---|---|---|
| 64742-47-8 | Hydrotreated light distillate (petroleum, mineral spirits) | TSCA: Inventory |

**Additional Regulatory Information** This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

## 16. OTHER INFORMATION

| | | | |
|---|---|---|---|
| **Revision Date:** | 11/05/2021 | **Previous revision:** | 08/05/2020 |
| **Preparer Name:** | W.M. Barr EHS Department | (901)775-0100 | |

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.