

## **Material Safety Data Sheet**

Revision Date 25-Mar-2014

# 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code P68551

Product name Defroster Grid Pen Recommended Use Defroster Grid Pen Repair Material

Supplier Kent Automotive

8770 W.Bryn Mawr Ave.- Suite 900

Chicago, IL 60631 1-866-529-7664

Emergency telephone number

(888) 426-4851

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Flammable. Irritant.

#### **Aggravated Medical Conditions**

Pre-existing heart conditions. Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

## **Principal Routes of Exposure**

Eyes. Skin. Ingestion. Inhalation.

## Potential health effects

Eyes Irritation. Tearing. Redness. Swelling. Corneal

damage.

**Skin** Prolonged skin contact may cause skin irritation

and/or dermatitis.

**Inhalation** Harmful by inhalation. Drowsiness . Headaches.

Nausea. Vomiting. Dizziness. May cause irritation of respiratory tract. May cause irritation to the mucous membranes. Extreme overexposure may cause. Narcosis. Possible unconsciousness.

Ingestion Harmful if swallowed. Central nervous system

effects.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Silver	7440-22-4	60-100
Acrylic Resin	Mixture	5-10
Propylene glycol monomethyl ether acetate	108-65-6	5-10
n-Butyl acetate	123-86-4	5-10

## 4. FIRST AID MEASURES

Eye contact Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation

persists, consult a specialist.

**Skin contact** Remove and wash contaminated clothing before

re-use. Wash off immediately with soap and plenty of water. Seek medical attention if irritation persists.

Ingestion Drink 1 or 2 glasses of water. Do Not induce

vomiting. Seek medical attention.

**Inhalation** Remove from exposure. Provide oxygen if

breathing is difficult. Call a physician. Administer artificial respiration if not breathing. Call a physician

immediately.

## 5. FIRE FIGHTING MEASURES

Flash point °C 24 Flash point °F 76

Method Tag Closed Cup

Autoignition temperature °C No data available Autoignition temperature °F No data available

Flammability Limits (% in Air)

**Upper** 10 **Lower** 1.5

#### Suitable extinguishing media

Alcohol foam. Water spray. Dry chemical powder. Foam.

## Special protective equipment for firefighters

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

## **Special Fire-Fighting Procedures**

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

## Fire and Explosion Hazards

Water should be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat . Vapors may form explosive mixture in air between upper and lower explosive limits which can be ignited by many sources, such as pilot lights, open flames, electrical motors and switches.

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#### Sensitivity to shock

No information available.

## Sensitivity to static discharge

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

#### Methods for cleaning up

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Eliminate all sources of ignition. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum. Place in suitable container for disposal as hazardous waste.

#### 7. HANDLING AND STORAGE

#### Handling

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Thoroughly wash hands and exposed skin after handling. Keep container closed when not in use.

#### Storage

Keep away from direct sunlight. Keep out of the reach of children.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Silver	0.01 mg/m <sup>3</sup>	-	0.1 mg/m <sup>3</sup>	-
Propylene glycol monomethyl ether acetate	-	-	1	-
n-Butyl acetate	150 ppm 710 mg/m <sup>3</sup>	-	150 ppm	200 ppm
Acrylic Resin	-	-	-	-

## **Ventilation and Environmental Controls**

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Local: as necessary.

#### Hygiene measures

General industrial hygiene practice.

## Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

#### **Hand Protection**

Chemical resistant gloves. Rubber gloves.

#### Eye protection

Safety glasses with side-shields.

## Skin and body protection

None necessary under normal conditions

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid Color Red

Odor Aromatic Hydrocarbon-like

Odor Threshold 150 ppm

pH No data available

Specific Gravity

Vapor pressure

Vapor density

Evaporation Rate

1.75

5 mmHg

> 1 (Air=1)

No data available

Water solubility 10% VOC Content 35

Partition Coefficient No data available

(n-octanol/water)

**Boiling point/range °C** 126 **Boiling point/range °F** 259

Melting point/range °C No data available
Melting point/range °F No data available

Flash point °C 24 Flash point °F 76

## 10. STABILITY AND REACTIVITY

## Stability

Stable.

## Conditions to avoid

Avoid heat, sparks, and other sources of ignition.

## Incompatability

Strong oxidizers. Acids. Bases. Caustics. Amines. Alkalies.

## **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). smoke.

## Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

#### **Component Information**

Chemical Name	LD50 (oral,rat )	LD50 (dermal ,rat/rab bit)	LC50 (inhalation,rat)
Silver	2000	-	-
7440-22-4	mg/kg		
Propylene glycol	8532	5 g/kg	-
monomethyl ether	mg/kg		
acetate			
108-65-6			
n-Butyl acetate	-	17600	390 ppm
123-86-4		mg/kg	
Acrylic Resin Mixture	-	-	-

Synergistic Products

None known

#### Potential health effects

Sensitization None known

Chronic toxicity None known

Mutagenic effects None known

Teratogenic effects None known

Reproductive toxicity None known

Target Organ Effects See Section 2

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	Carcinoge
Silver	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propylene glycol monomethyl ether acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
n-Butyl acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Acrylic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Silver

## Water Flea Data

Daphnia magna EC50=0.00024 mg/L (48 h)

Propylene glycol monomethyl ether acetate

#### Water Flea Data

Daphnia magna EC50>500 mg/L (48 h)

n-Butyl acetate

## Microtox Data

Photobacterium phosphoreum EC50=70.0 mg/L (5 min)

Photobacterium phosphoreum EC50=82.2 mg/L (15 min)

Pseudomonas putida EC50=959 mg/L (18 h)

Photobacterium phosphoreum EC50=98.9 mg/L (30 min)

Aquatic toxicity Do not let product enter drains.

## 13. DISPOSAL CONSIDERATIONS

#### Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations.

## Bioaccumulation

Water contamination should be avoided

## 14. TRANSPORTATION INFORMATION

#### DOT

Consumer commodity, ORM-D.

#### **TDG**

UN1263 PAINT, Class 3, PG III

## 15. REGULATORY INFORMATION

<b>Chemical Name</b>	US EPA SARA 313 Emission Reporting
Silver	Listed

## **State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Silver	Listed	Listed	
Propylene glycol monomethyl ether acetate	Not Listed	Not Listed	Not Listed
n-Butyl acetate	Listed	Listed	Not Listed
Acrylic Resin	Not Listed	Not Listed	Not Listed

#### International Inventories

Chemical Name	<b>EINECS</b>	DSL	NDSL	TSCA
Silver	Χ	Χ	-	X
Propylene glycol	Χ	Χ	-	X
monomethyl ether acetate				
n-Butyl acetate	X	Х	-	X
Acrylic Resin	-	-	-	-

#### CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## **16. OTHER INFORMATION**

NFPA

NFP

Health - 2 Flammability - 3

Panativity 4

Reactivity - 1

**HMIS** 

HMIS

Health - 2

Flammability - 3

Physical Hazard - 1

Prepared By

V. Shargorodsky, Regulatory Affairs

Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.