



a Kephaco Company

Manufacturer &  
Fabricator of Bath and  
Kitchen Surfaces

- Cast Polymer
- Solid Surface
- Granite
- Quartz
- Laminate

## Repair Instructions “Important”

Please read ALL instructions, including NOTES & TIPS

Contents: (May vary according to item(s) being repaired)

- Clear gel coat
- Catalyst
- Color to match (powder or paste, if necessary)
- Stirring sticks
- Mixing cups
- Sandpaper (grit #320, 400, 600 and 1000/16 micron)
- Polishing compound
- Clean rags (for polishing)
- Repair instructions
- Safety data sheet(s)

1. Make sure damaged area is free of dirt.
2. Mix a small amount of gel coat (approx. 1 or 2 oz.) with 4-6 drops of catalyst.
3. Add color if needed. **\*\*SEE TIPS\*\***
4. Fill damaged area with mixture, slightly higher than surface.
5. Allow 4-6 hours for mixture to cure at room temperature.  
**\*\*SEE TIPS\*\***
6. Beginning with #400 grit sandpaper and some water, sand the area until almost flush with the surface.
7. Switch to #600 grit sandpaper and sand area flush, enlarging the area slightly.
8. Repeat with #1000/16 micron sandpaper, enlarging one last time.
9. Use the polishing compound and a clean rag to polish the area until the original sheen has returned.

**\*\*NOTE\*\*** If the item being repaired has a **MATTE** finish, simply use #320 grit sandpaper and water to sand the area after the repair has cured. No buffing is needed. Repair is then complete.

### **\*\*TIPS\*\***

- \*\*** When mixing colors, use one (1) cup. Fill cup half full with clear gel. Add small amount of color then add more color if needed.
- \*\*** For best results, allow 12 hours for mixture to cure.
- \*\*** If low spots are visible after step #6 simply repeat steps 1-5.
- \*\*** If scratches are not too deep, start at step #5 and proceed as directed.
- \*\*USE PROPER EYE AND SKIN PROTECTION\*\***

# SAFETY DATA SHEET

## NOROX MEKP-9H



Version  
2.0

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10/19/2018

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### SECTION 1. IDENTIFICATION

Product name : NOROX MEKP-9H

#### Manufacturer or supplier's details

Company name of supplier : United Initiators, Inc.

Address : 555 Garden Street  
Elyria OH 44035

Telephone : +1-440-323-3112

Telefax : +1-440-323-2659

Emergency telephone : CHEMTREC US (24h): +1-800-424-9300  
CHEMTREC WORLD (24h): +1-703-527-3887

E-mail address of person responsible for the SDS : cs-initiators.nafta@united-in.com

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

Recommended use : Hardener

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 4

Organic peroxides : Type D

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Reproductive toxicity : Category 2

Acute aquatic toxicity : Category 2

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

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Hazard Statements	: H227 Combustible liquid. H242 Heating may cause a fire. H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H361d Suspected of damaging the unborn child. H401 Toxic to aquatic life.
Precautionary Statements	: <b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials. P234 Keep only in original container. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. <b>Storage:</b> P405 Store locked up. P410 Protect from sunlight. P411 + P235 Store at temperatures not exceeding < 100 °F/ < 38 °C. Keep cool. P420 Store away from other materials. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

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### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Organic Peroxide  
Liquid mixture

### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
2-Butanone, peroxide	1338-23-4	$\geq 30$ - $< 35$
Trimethylpentanediol isobutyrate	6846-50-0	$\geq 20$ - $< 25$
Butanone	78-93-3	$\geq 1$ - $< 5$
Hydrogen peroxide	7722-84-1	$\geq 1$ - $< 5$

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
Call a physician immediately.

If inhaled : Call a physician or poison control center immediately.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Call a physician immediately.  
If breathed in, move person into fresh air.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
If symptoms persist, call a physician.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

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- Do NOT induce vomiting.  
Call a physician immediately.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.  
Causes serious eye damage.  
Suspected of damaging the unborn child.  
Causes severe burns.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically and supportively.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
- Flash back possible over considerable distance.  
Vapors may form explosive mixtures with air.  
Cool closed containers exposed to fire with water spray.
- Specific extinguishing methods : Do not use a solid water stream as it may scatter and spread fire.  
Remove undamaged containers from fire area if it is safe to do so.  
Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protec- : Use personal protective equipment.
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- tive equipment and emergency procedures : Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapors/mists with a water spray jet. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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### SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.
- Advice on safe handling : Do not swallow. Do not breathe vapors/dust. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8.

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Protect from contamination.

Conditions for safe storage : Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Materials to avoid : Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature : < 100 °F

< 38 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	NIOSH REL
		TWA	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	5 mg/m <sup>3</sup>	OSHA P0
2-Butanone, peroxide	1338-23-4	C	0.2 ppm	ACGIH
		C	0.2 ppm 1.5 mg/m <sup>3</sup>	NIOSH REL
		C	0.7 ppm 5 mg/m <sup>3</sup>	OSHA P0
Butanone	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m <sup>3</sup>	NIOSH REL
		ST	300 ppm 885 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 590 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 ppm 590 mg/m <sup>3</sup>	OSHA P0
Hydrogen peroxide	7722-84-1	STEL	300 ppm 885 mg/m <sup>3</sup>	OSHA P0
		TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 ppm 1.4 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1 ppm	OSHA P0

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1.4 mg/m<sup>3</sup>

### Hazardous components without workplace control parameters

Ingredients	CAS-No.
Trimethylpentanediol isobutyrate	6846-50-0

### Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

**Engineering measures** : Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : ABEK-filter

### Hand protection

Material : butyl-rubber

Break through time : > 480 min

Glove thickness : 0.5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Hygiene measures : Keep away from food and drink.  
When using do not eat or drink.



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When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	> 76 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	> 1
Density	:	1.1 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	60 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	not determined
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Organic peroxide

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### SECTION 10. STABILITY AND REACTIVITY

- Reactivity : Stable under recommended storage conditions.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Vapors may form explosive mixture with air.
- Conditions to avoid : Protect from contamination.  
Contact with incompatible substances can cause decomposition at or below SADT.  
Heat, flames and sparks.  
Avoid confinement.
- Incompatible materials : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

- Acute oral toxicity : Acute toxicity estimate: 1,431 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 4.29 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### Ingredients:

##### **2-Butanone, peroxide:**

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Expert judgment
- Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgment  
Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Based on data from similar materials
- Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg  
Method: Expert judgment
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### **Trimethylpentanediol isobutyrate:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: Expert judgment  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Method: Expert judgment  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality observed at this dose.
- Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg  
Method: Expert judgment  
Assessment: The substance or mixture has no acute dermal toxicity

### **Butanone:**

- Acute oral toxicity : LD50 (Rat): 2,193 mg/kg  
Method: OECD Test Guideline 423
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **Hydrogen peroxide:**

- Acute oral toxicity : LD50 (Rat, male): 1,026 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 0.17 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
- Acute dermal toxicity : LD50 (Rabbit): > 6,500 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

### **Product:**

Remarks: Extremely corrosive and destructive to tissue.

### **Ingredients:**

#### **2-Butanone, peroxide:**

Species: Rabbit

Result: Causes burns.

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### **Trimethylpentanediol isobutyrate:**

Species: Guinea pig

Exposure time: 24 h

Result: No skin irritation

Remarks: Based on available data, the classification criteria are not met.

### **Butanone:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

### **Hydrogen peroxide:**

Result: Corrosive after 3 minutes or less of exposure

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Product:**

Remarks: May cause irreversible eye damage.

### **Ingredients:**

#### **2-Butanone, peroxide:**

Result: Irreversible effects on the eye

#### **Trimethylpentanediol isobutyrate:**

Species: Rabbit

Result: No eye irritation

#### **Butanone:**

Species: Rabbit

Result: Eye irritation

Method: OECD Test Guideline 405

#### **Hydrogen peroxide:**

Result: Irreversible effects on the eye

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### **Ingredients:**

#### **2-Butanone, peroxide:**

Species: Guinea pig

Method: OECD Test Guideline 406

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Result: Does not cause skin sensitization.

Assessment: Harmful if swallowed., Harmful if inhaled.

### **Trimethylpentanediol isobutyrate:**

Species: Guinea pig

Result: Does not cause skin sensitization.

### **Butanone:**

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitization.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Ingredients:**

#### **2-Butanone, peroxide:**

Genotoxicity in vitro : Method: OECD Test Guideline 473  
Result: negative

: Method: OECD Test Guideline 471  
Result: negative

: Method: OECD Test Guideline 476  
Result: negative

#### **Trimethylpentanediol isobutyrate:**

Genotoxicity in vitro : Method: OECD Test Guideline 476  
Result: negative

: Test Type: Ames test  
Result: negative

: Method: OECD Test Guideline 473  
Result: negative

#### **Butanone:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

: Method: OECD Test Guideline 476  
Result: negative

: Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474

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Result: negative

### Hydrogen peroxide:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Ingredients:

#### 2-Butanone, peroxide:

Remarks: This information is not available.

#### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Suspected of damaging the unborn child.

### Ingredients:

#### 2-Butanone, peroxide:

Effects on fertility : Species: Rat  
Application Route: oral (gavage)  
General Toxicity Parent: NOAEL: 50 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: negative

#### Trimethylpentanediol isobutyrate:

Effects on fetal development : Species: Rabbit  
Application Route: Oral  
300 mg/kg

Reproductive toxicity - Assessment : Suspected of damaging the unborn child., Some evidence of adverse effects on development, based on animal experiments.

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### Butanone:

Effects on fertility : Species: Rat  
Application Route: oral (drinking water)  
General Toxicity Parent: NOAEL: 10,000 mg/l  
General Toxicity F1: NOAEL: 10,000 mg/l  
Method: OECD Test Guideline 416  
Remarks: Based on data from similar materials

Species: Rat  
Application Route: oral (drinking water)  
General Toxicity Parent: LOAEL: 20,000 mg/l  
Method: OECD Test Guideline 416  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat  
Application Route: Inhalation  
General Toxicity Maternal: NOAEC: ca. 1,002 mg/kg body weight  
Teratogenicity: NOAEC Parent: ca. 1,002 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative

### STOT-single exposure

Not classified based on available information.

### Ingredients:

#### Butanone:

Assessment: May cause drowsiness or dizziness.

#### Hydrogen peroxide:

Assessment: May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Ingredients:

#### 2-Butanone, peroxide:

Species: Rat  
NOAEL: 200 mg/kg  
Application Route: oral (gavage)  
Exposure time: 28 d  
Method: OECD Test Guideline 407

Repeated dose toxicity - Assessment : Harmful if swallowed., Harmful if inhaled.

#### Hydrogen peroxide:

Species: Mouse  
Application Route: Ingestion

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Exposure time: 90 d  
Symptoms: No adverse effects.

### Aspiration toxicity

Not classified based on available information.

### Ingredients:

#### Trimethylpentanediol isobutyrate:

Not classified due to data which are conclusive although insufficient for classification.

### Further information

#### Product:

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

#### 2-Butanone, peroxide:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 44.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

NOEC (Poecilia reticulata (guppy)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 26.7 mg/l  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 48 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

#### Trimethylpentanediol isobutyrate:



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Toxicity to fish : NOEC (Fish):  $\geq 6$  mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia):  $\geq 1.46$  mg/l  
Exposure time: 48 h  
  
NOEC (Daphnia): 0.7 mg/l  
Exposure time: 21 d

Toxicity to algae : EC50 (Chlorella pyrenoidosa):  $> 7.49$  mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC (Daphnia magna (Water flea)): 0.7 mg/l  
Exposure time: 21 d

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### Butanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,993 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,029 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,150 mg/l  
Exposure time: 16 h  
Method: DIN 38 412 Part 8

### Hydrogen peroxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 2.4 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l  
Exposure time: 72 h  
  
NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l  
Exposure time: 72 h

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.63 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : EC50: Method: OECD Test Guideline 209

### Persistence and degradability

#### Ingredients:

##### **2-Butanone, peroxide:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

##### **Trimethylpentanediol isobutyrate:**

Biodegradability : Result: rapidly biodegradable  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Butanone:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

##### **Hydrogen peroxide:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Ingredients:

##### **2-Butanone, peroxide:**

Partition coefficient: n-octanol/water : log Pow: < 0.3 (25 °C)

##### **Trimethylpentanediol isobutyrate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 1.95

Partition coefficient: n-octanol/water : log Pow: 4.91 (25 °C)

##### **Butanone:**

Partition coefficient: n-octanol/water : log Pow: 0.3 (40 °C)

##### **Hydrogen peroxide:**

Partition coefficient: n-octanol/water : log Pow: -1.57  
Remarks: Calculation

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### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(METHYL ETHYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2

#### **IATA-DGR**

UN/ID No. : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(Methyl ethyl ketone peroxide(s))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passen- : 570

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ger aircraft)

### IMDG-Code

UN number : UN 3105  
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID  
(METHYL ETHYL KETONE PEROXIDE(S))  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3105  
Proper shipping name : Organic peroxide type D, liquid  
(Methyl ethyl ketone peroxide(s), <=45%)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : ORGANIC PEROXIDE  
ERG Code : 145  
Marine pollutant : no

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-Butanone, peroxide	1338-23-4	10	29

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrogen peroxide	7722-84-1	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Fire Hazard  
Reactivity Hazard  
Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen peroxide      7722-84-1

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

dimethyl phthalate      131-11-3

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### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

dimethyl phthalate                      131-11-3

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Butanone                                      78-93-3

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

dimethyl phthalate                      131-11-3

### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

- DSL (CA) : All components of this product are on the Canadian DSL
- AICS (AU) : On the inventory, or in compliance with the inventory
- NZIoC (NZ) : On the inventory, or in compliance with the inventory
- ENCS (JP) : On the inventory, or in compliance with the inventory
- ISHL (JP) : On the inventory, or in compliance with the inventory
- KECI (KR) : On the inventory, or in compliance with the inventory
- PICCS (PH) : On the inventory, or in compliance with the inventory
- IECSC (CN) : On the inventory, or in compliance with the inventory
- TCSI (TW) : On the inventory, or in compliance with the inventory
- TSCA (US) : On TSCA Inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

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### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 10/19/2018

The information provided in this Material 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.


US / Z8

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**Section 1 CHEMICAL PRODUCT and COMPANY IDENTIFICATION**

**Identification: Product Name:** **AquaBuff 2000**  
**Recommended use:** Polishing  
**Manufacturer:** Matchless Metal Polish Co.  
840 W. 49th Pl.  
Chicago, IL 60609  
PH: (01) 773.924.1515 [U.S.A.]  
FAX: (01) 773.924.5513 [U.S.A.]  
Emergency telephone: (01) 773.924.1515 [U.S.A.] [24 hour]

**Section 2 HAZARDS IDENTIFICATION**

<b>Hazard Classification:</b> Irritant  <b>WARNING:</b> Dust produced in use may temporarily irritate eyes, skin, and respiratory system.	<b>Hazard Pictogram:</b> 
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**Hazard Classification**

<b>NFPA HAZARD RATING:</b>	Fire: (1, minimal)	Health: (2, minimal)	Reactivity: (1, minimal)
<b>HMIS:</b>	Fire: (5, minimal)	Health: (4, minimal)	Reactivity: (5, minimal)

**Hazard phrases:**

H316, H320, H335: Dust produced during use may cause mild irritation of skin, eyes, and respiratory tract.

**Precautionary Phrases:**

P102: Keep out of reach of children.  
P261: Avoid breathing dust, may cause respiratory tract irritation.  
P264: Wash thoroughly after handling. Avoid skin irritation by wearing protective gloves. If needed wear eye protection and dust mask.

**Section 3 COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS Number	EC Number	% Range
Aluminum oxide, non-fibrous	1344-28-1	215-691-6	40-50
Water	7732-18-5	231-791-2	40-50
Tallow derivatives	Proprietary	Proprietary	10-20

**Section 4 FIRST AID MEASURES**

**General:** Remove contaminated clothing.  
**Inhalation:** If excessive dust is inhaled, remove to fresh air. Seek medical attention if breathing difficulties persist.  
**Eye Contact:** Check for and remove any contact lenses. Flush eyes with large amounts of water, cold water may be used. Seek medical attention if vision difficulties occur.  
**Skin Contact:** Wash contaminated skin with soapy water. Remove contaminated clothing and shoes. Wash clothing and shoes before reuse.  
**Ingestion:** Immediately rinse mouth and drink plenty of water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Ingestion of small quantities is not expected to produce symptoms. If large quantities are swallowed, obtain medical help.



## AQUABUFF 2000 POLISHING COMPOUND

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### Section 5 FIRE FIGHTING MEASURES

Flash Point & Method: over 370°F (estimated).  
Fire Fighting Instructions: Water-based, not flammable in liquid state.  
Fire Fighting Equipment: Use self-contained breathing apparatus and turn-out gear.  
Hazards during fire-fighting: Heat may produce steam which can cause burns.

### Section 6 ACCIDENTAL RELEASE MEASURES

**Emergency Action:** Isolate spill or leak area immediately.  
May make floor slippery when wet. If material cannot be recovered, transfer to waste container and dispose in local landfill, in compliance with local, state and federal regulations. Clean up residual material with water.

### Section 7 HANDLING AND STORAGE

**Handling:** Wear protective gloves if skin irritation is experienced. Wash hands before eating. Avoid breathing dust produced in use.  
**Storage:** Store at room temperature. Avoid freezing and excessive heat.

### Section 8 EXPOSURE CONTROL / PERSONAL PROTECTION

	CAS Number	EC Number	OSHA PEL	ACGIH TLV
Aluminum oxide, non-fibrous	1344-28-1	215-691-6	15 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep dust levels below occupational exposure limits. See section 2 for component exposure guidelines. Local exhaust ventilation is acceptable.

**Respirator:** Use a NIOSH-certified dust mask or equivalent.

**Hand Protection:** Wear gloves.

**Eye Protection:** Protective eye-wear should be used in dusty environment.

**Other Recommendations:** Wear protective clothing such as long sleeves. Wash hands after handling.

### Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Density.....	approximately 1.5 g/cm <sup>3</sup> (25° C / 77° F)	
pH.....	9.5 – 10.5	Physical State.....Liquid, thick cream
Boiling Point.....	approximately 212°F / 100°C	Solubility in water.....Dispersible
Freeze Point.....	approximately 32°F / 0°C	Appearance:.....White paste
Vapor Density (Air=1).....	No data available	Odor.....Mildly chemical

### Section 10 STABILITY AND REACTIVITY

**General:** Stable  
**Incompatible Materials and Conditions to Avoid:** Strong oxidizing agents  
**Hazardous Polymerization:** Will not occur.

### Section 11 TOXICOLOGY INFORMATION

No information available on Acute or Chronic ingestion or inhalation toxicity.  
No ingredients present above 0.1% which are carcinogenic according to NTP, IARC, or OSHA findings.

### Section 12 ECOLOGICAL INFORMATION

All ingredients are inert in the environment, or biodegrade to non-hazardous compounds.

### Section 13 DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 Classifications: not classified as hazardous.



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Federal, State, and Local laws governing disposal of material can differ. Ensure proper disposal compliance with proper authorities before disposal.

**Section 14 TRANSPORTATION INFORMATION**

NON-HAZARDOUS MATERIAL Not regulated for transportation under US DOT, IATA, ICAO, IMDG, Canadian TDG Regulations, or EU ADR.

**Section 15 REGULATORY INFORMATION**

**US Federal Regulations:** SDS complies with the OSHA Hazard Communication Rule, 29 CFR 1910.1200.

- CERCLA/Superfund, 40 CFR 117, 302: None of the chemicals are CERCLA hazards
- SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311, 312 and 313:
- Section 302 – None of the chemicals are extremely hazardous substances (40 CFR 355).
- Section 311/312 – Material Safety Data Sheet Requirements (40 CFR 370): By our hazard evaluation, this product may be an eye and skin irritant.
- Section 313 – List of Toxic Chemicals (40CFR 372): This product contains no chemicals ( at level of 1% or greater) that are found on the 313 list of Toxic Chemicals.
- Toxic Substance Control Act (TSCA): All substances are TSCA listed.
- Resource Conservation and Recovery Act (RCRA 40 CFR 261) Subpart C & D:  
Refer to Section 13.

**STATE REGULATIONS:**

- No substances in this mixture are specifically listed by individual state. Other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.
- California Proposition 65: None of the ingredients are on the Proposition 65 list
- Canada WHMIS: Not Controlled. All components of this product are included in the Canadian DSL (Domestic Substances List)

**Sections 16 OTHER INFORMATION**

**LABEL INFORMATION:** For Shipping Label information refer to section 14

Product label warnings are as follows (Comparable CHIP Safety & Risk phrases are noted):

[H303] May be harmful if swallowed.

[P102] Keep out of the reach of children. [P261] Avoid breathing dust.

[P262] Do not get in eyes or on skin. [P280] Wear protective gloves and eye protection.

**REVISION DATES**

5/1/2018

**SECTIONS**

3-year review

**REVISED BY**

kb

**ABBREVIATIONS USED IN THIS DOCUMENT:** NE – Not Established, NA – Not Applicable, NIF – No Information Found

**ABRIDGED LIST OF REFERENCES:**

Code of Federal Regulations (CFR)

Chemical Guide and OSHA Hazardous Communication Standard

US Department of Labor; Occupational Safety & Health Administration ([www.osha.gov](http://www.osha.gov))

The Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Government of Canada: <http://canadagazette.gc.ca/news-e.html>

To the best of our knowledge, the information contained herein is accurate. However, neither MATCHLESS METAL POLISH nor any of its subsidiaries assumes any liability **whatsoever for the accuracy or completeness of the information contained herein**. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.



# Safety Data Sheet

FOR INDUSTRIAL USE ONLY

## MARBLE CLEAR GEL COAT

Revision Date 8/14/2018

### 1. Identification

**Product Name:** MARBLE CLEAR GEL COAT

STYPOL 040-4917

**SDS Number:** 0404917MRB2

**Product Use:** Industrial

**Manufacturer, Importer, Supplier** Polynt Composites USA, Inc.  
99 East Cottage Avenue  
Carpentersville IL 60110

E-Mail: MSDS@polynt.com

**Telephone** **For Emergency Transportation Information**  
**CHEMTREC US Domestic (800) 424-9300**  
**CHEMTREC International (703) 527-3887**

For additional health, safety or regulatory information, call (847) 836-3659

### 2. Hazard identification

**EMERGENCY OVERVIEW:** Risk of serious damage to the lungs (by aspiration). May cause sensitization by inhalation and skin contact.

#### GHS Classification

Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, STOT RE 1, STOT SE 3 NE, STOT SE 3 RTI

#### Symbol(s) of Product



#### Signal Word

Danger

#### GHS HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.

Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

**GHS LABEL PRECAUTIONARY STATEMENTS**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use dry chemical, foam, water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P281	Use personal protective equipment as required.

**GHS SDS PRECAUTIONARY STATEMENTS**

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P270	Do not eat, drink or smoke when using this product.
P363	Wash contaminated clothing before reuse.

**3. Composition/Information on ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
STYRENE MONOMER	100-42-5	30 - 40
METHYL METHACRYLATE	80-62-6	5.0 - 10
LIGHT AROMATIC NAPHTHA	64742-95-6	0.1-1.0
ETHYLENE GLYCOL	107-21-1	0.1-1.0

**4. First-aid measures**

**FIRST AID - EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**FIRST AID - INGESTION:** Do NOT induce vomiting. If ingested, consult a physician. Aspiration hazard if swallowed - can enter lungs and cause damage.

**FIRST AID - INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**FIRST AID - SKIN CONTACT:** Wash with soap and water. Remove contaminated clothes and shoes. Get medical attention if irritation develops.

## 5. Fire-fighting measures

### Extinguishing Media:

**Suitable** Carbon Dioxide, Dry Chemical, Foam, Water Fog  
**Not suitable** Water Jet

**SPECIAL FIREFIGHTING PROCEDURES:** Use full protective clothing. Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Vapors may be ignited by heat, pilot lights, other flames and ignition sources. Self-accelerating decomposition may occur if the specific control temperature is not maintained. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Cool containers / tanks with water spray. Do not use a solid water stream as it may scatter and spread fire. In case of fire: Use carbon dioxide, dry chemical, foam, water fog to extinguish.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No Information

## 6. Accidental release measures

**ENVIRONMENTAL MEASURES:** 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). Prevent entry into waterways, sewers, basements or confined areas.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Do not flush into surface water or sanitary sewer system. Use non-sparking tools and equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapors or mists.

**PRECAUTIONARY MEASURES:** No Information

## 7. Handling and storage



**HANDLING:** Keep away from heat and sources of ignition. Ground/bond container and equipment. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors, mist or gas. Use only in well-ventilated areas. Wash contaminated clothing before reuse.

**STORAGE:** Store and dispose according to national, state and local regulations. Keep container closed when not in use. Store contents under 100F (37.8C). Store drums with bung in the upright position. Electrical equipment must be grounded; suitable for the classification of the area where it is installed and conform to the National Electric Code (see NFPA 70). Store in cool well ventilated space away from incompatible materials.

**HYGIENIC PRACTICES:** General industrial hygiene practice. Wash hands before eating, drinking, or smoking. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

**WORK PRACTICES:** Put on appropriate personal protective equipment. Wash hands after handling chemicals and before eating, drinking, or smoking. Read and understand entire SDS before handling chemical.

**SPECIAL HANDLING PROCEDURES:** Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

## 8. Exposure controls/personal protection

### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA CEILING</u>
STYRENE MONOMER	20 ppm	40 ppm	100 ppm	200 ppm
METHYL METHACRYLATE	50 ppm	100 ppm	100 ppm	N.E.
LIGHT AROMATIC NAPHTHA	N.E.	N.E.	N.E.	N.E.
ETHYLENE GLYCOL	25 ppm	50 ppm	N.E.	N.E.

**Further Advice:** MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
 Sk = Skin Sensitizer N.E. = Not Established

**Personal Protection**

**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. When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary.



**SKIN PROTECTION:** Wear suitable protective equipment. Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.



**EYE PROTECTION:** Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material.



**OTHER PROTECTIVE EQUIPMENT:** Use good hygiene practices. Wash face and hands before eating, drinking, and smoking. Eye wash and safety showers should be readily available.



**HYGIENIC PRACTICES:** General industrial hygiene practice. Wash hands before eating, drinking, or smoking. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

**9. Physical and chemical properties**

<b>Color:</b>	Pink	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Styrene	<b>Odor Threshold:</b>	Not Available
<b>Density, g/cm<sup>3</sup>:</b>	1.051	<b>pH:</b>	Not Available
<b>Freeze Point, °C:</b>	Not Available	<b>Viscosity:</b>	Not Available
<b>Solubility in Water:</b>	Insoluble	<b>Partition Coefficient, n-octanol/water:</b>	Not Available
<b>Decomposition Temp., °C:</b>	Not Available	<b>Flash Point, °C / F°</b>	26 / 79
<b>Boiling Range, °C:</b>	100	<b>Explosive Limits, vol%:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available	<b>Auto-ignition Temp., °C:</b>	Not Available

(See "Other information" Section for abbreviation legend)

**10. Stability and reactivity**

**STABILITY:** Stable under normal conditions. The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.

**CONDITIONS TO AVOID:** Keep product away from heat, sparks, pilot lights, static electricity, and open flame. Avoid improper addition of promotor and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If adding accelerator like cobalt drier, mix accelerator with base material before adding catalyst. Burning may produce obnoxious and toxic fumes. Hazardous polymerization may occur.

**INCOMPATIBILITY:** Strong oxidizing and reducing agents. Strong acids. Free radical initiators. Copper. Metal salts.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal use.

**11. Toxicological information****Practical Experiences**

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Exposure may cause mild irritation. Symptoms may include stinging, tearing, and redness.

**EFFECT OF OVEREXPOSURE - INGESTION:** May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea.

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Ingestion of large doses may cause headaches, dizziness, nausea, vomiting, and drowsiness. Irritating to skin.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Prolonged skin contact may defat the skin and produce dermatitis.

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause central nervous system damage. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure may cause liver and kidney effects.

**CARCINOGENICITY:** This product contains styrene classified by the International Agency for Research on Cancer (IARC) as 2A carcinogen.

This product contains styrene, which is listed in the NTP report on carcinogens.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Contact

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
100-42-5	STYRENE MONOMER	1000 mg/kg Rat	N.I.	11.7 mg/L Rat
80-62-6	METHYL METHACRYLATE	8420 - 10000 mg/kg Rat	5000 - 7500 mg/kg Rabbit	78000 mg/l Rat
64742-95-6	LIGHT AROMATIC NAPHTHA	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
107-21-1	ETHYLENE GLYCOL	4700 mg/kg Rat	10600 mg/kg Rat	N.I.

N.I. = No Information

## 12. Ecological information

**ECOLOGICAL INFORMATION:** Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits. Discharge into the environment must be avoided.

## 13. Disposal considerations



**DISPOSAL METHOD:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

## 14. Transport information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

### International transport regulations

Regulatory Information:	UN/NA Number	Proper Shipping Name	Classes/ *PG	Reportable Quantity (RQ)
CFR	UN1866	RESIN SOLUTION	Class 3 PGIII	
IMO/IMDG	UN1866	RESIN SOLUTION	Class 3 PGIII	
IATA	UN1866	RESIN SOLUTION	Class 3 PGIII	

## 15. Regulatory information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

<u>Chemical Name</u>	<u>CAS-No.</u>
STYRENE MONOMER	100-42-5
METHYL METHACRYLATE	80-62-6
ETHYLENE GLYCOL	107-21-1

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
STYRENE MONOMER	100-42-5
METHYL METHACRYLATE	80-62-6
ETHYLENE GLYCOL	107-21-1

#### TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) regulated components exist in this product.

#### CALIFORNIA PROPOSITION 65 CARCINOGENS



WARNING: Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

<u>Chemical Name</u>	<u>CAS-No.</u>
STYRENE MONOMER	100-42-5
ETHYLBENZENE	100-41-4

#### CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS



WARNING: Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<u>Chemical Name</u>	<u>CAS-No.</u>
ETHYLENE GLYCOL	107-21-1
METHYL ALCOHOL	67-56-1

### International Regulations

<b>Chemical Inventories</b>	<b>Australia inventory (AICS)</b>	All components are listed or exempted
	<b>Canada inventory (DSL)</b>	Not listed
	<b>Canada inventory (NDSL)</b>	Not listed
	<b>Japan Inventory (ENCSC)</b>	Not listed
	<b>China Inventory (IECSC)</b>	All components are listed or exempted
	<b>Korea Inventory (KECI)</b>	Not listed
	<b>New Zealand (NZIoC)</b>	All components are listed or exempted
	<b>Philippines (PICCS)</b>	All components are listed or exempted
	<b>United States Inventory (TSCA 8b)</b>	All components are listed or exempted

## 16. Other information

**Revision Date:** 8/14/2018 **Supersedes Date:** 6/19/2018  
**Reason for revision:** Updated SDS Information  
**Datasheet produced by:** Regulatory Department

### HMIS Ratings:

<b>Health:</b>	2*	<b>Flammability:</b>	3	<b>Reactivity:</b>	1	<b>Personal Protection:</b>	N.I.	<b>Chronic Rating:</b>	*
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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