

Material Safety Data Sheet

RHODUNA® Diamond Bright Replenisher Solution

1 . Chemical product and company identification 5741215005

Common name	: RHODUNA® Diamond Bright Replenisher Solution	
Material uses	: Electroplating.	
IPDS Code	: 300000216	
e-mail address of person responsible for this SDS	: info.ipds@umicore.com	
Validation date	: 3/4/2014.	United States
<u>In case of emergency</u>	: For transport in the USA and Canada: 1-877 986 4267 For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries): +32 3 213 15 70 For transport in the Middle East (Israel excluded) & Arabic speaking Africa: +32 3 213 33 79 For transport in Asia and the Pacific (China excluded): +65 62 64 78 36 For transport in China: 400 88 71 190	
Supplier or representative of supplier	: Umicore Galvanotechnik GmbH Klarenbergstraße 53-79 73525 Schwäbisch Gmünd DE Germany Phone: +49 (0)7171 607-01 Fax: +49 (0)7171 607-294 galvano@eu.umicore.com	

2 . Hazards identification

Physical state	: Liquid.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). DANGER!
Hazard statements	: CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
Precautionary measures	: <input checked="" type="checkbox"/> Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Do not get in eyes. Do not get on skin. Do not eat, drink or smoke when using this product. Avoid prolonged contact with eyes, skin and clothing. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.
Routes of entry	: Not available.
<u>Potential acute health effects</u>	
Eyes	: Corrosive to eyes. Causes burns.
Skin	: Corrosive to the skin. Causes burns. Harmful in contact with skin.
Inhalation	: Toxic by inhalation. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

2 . Hazards identification

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Potential chronic health effects

Carcinogenic effects : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenic effects : No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity : No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Additional hazards : None known.

SNUR Status :

3 . Composition/information on ingredients

Name	CAS number	%
sulfuric acid, rhodium(3+) salt (3:2)	10489-46-0	<15
Sulphuric acid	7664-93-9	<10

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.

4 . First aid measures

Eye contact : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Protect unharmed eye. Call ambulance. (Cue: caustic burn of the eyes) Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Continue rinsing until medical attention can be obtained. Immediate further treatment in ophthalmic hospital/ophthalmologist.

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 clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5 . Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- In a fire or if heated, a pressure increase will occur and the container may burst. In the presence of fire, note caustic and corrosive effect.
- Hazardous combustion products** : Decomposition products may include the following materials:
sulfur oxides
metal oxide/oxides
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : 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.
- See Section 11 for more detailed information on health effects and symptoms.
- 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.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- 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).
- Large spill** : Stop leak if without risk. Move containers from spill area. 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). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. 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.
- Small spill** : Stop leak if without risk. Move containers from spill area. 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.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

7 . Handling and storage

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. The product has a corrosive effect on steel and aluminum. Avoid breathing vapor or mist.
- Additional information** : Keep away from: alkali metals , alkaline-earth metals , light metal

8 . Exposure controls/personal protection

Product name

Exposure limits

<p>Sulfuric acid, rhodium(3+) salt (3:2)</p> <p>Sulphuric acid</p>	<p>ACGIH TLV (United States, 6/2013). Notes: as Rh TWA: 1 mg/m³, (as Rh) 8 hours. Form: Insoluble</p> <p>OSHA PEL 1989 (United States, 3/1989). Notes: as Rh TWA: 0.1 mg/m³, (as Rh) 8 hours. Form: Insoluble</p> <p>NIOSH REL (United States, 4/2013). Notes: as Rh TWA: 0.1 mg/m³, (as Rh) 10 hours. Form: METAL FUME AND INSOLUBLE</p> <p>OSHA PEL (United States, 2/2013). Notes: as Rh TWA: 0.1 mg/m³, (as Rh) 8 hours.</p> <p>ACGIH TLV (United States, 6/2013). Notes: Refers to Appendix A -- Carcinogens. Thoracic fraction. See Appendix C, paragraph B. Thoracic Particulate Mass TLVs (TPM-TLVs) for those materials that are hazardous when deposited anywhere within the lung airways and the gas-exchange region. Sulfuric acid contained in strong inorganic acid mists ACGIH 2004 Adoption TWA: 0.2 mg/m³ 8 hours. Form: Thoracic fraction</p> <p>NIOSH REL (United States, 4/2013). TWA: 1 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 1 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 1 mg/m³ 8 hours.</p>
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Consult local authorities for acceptable exposure limits.

- Engineering measures** : 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.
- Personal protection**
- Eyes** : 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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.

8 . Exposure controls/personal 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.

Respiratory : 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.

Personal protective equipment (Pictograms) :

Hygiene measures

General information :

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.

9 . Physical and chemical properties

Physical state and Appearance : Liquid.

Color : Brown. [Dark]

pH : <1

VOC : 0 % (w/w)

Oxidizing properties : Not available.

Solubility : Not available.

Flammability of the product : Non-flammable.

10 . Stability and reactivity

Stability : The product is stable.

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

Materials to avoid : Highly reactive or incompatible with the following materials: metals and alkalis. Keep away from: alkali metals , alkaline-earth metals , light metal

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

11 . Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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11 . Toxicological information

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sulphuric acid	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 5 milligrams	-

Conclusion/Summary : Not available.

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
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Not available.

Conclusion/Summary : Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
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Not available.

Conclusion/Summary : **Sulphuric acid**: Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
sulfuric acid, rhodium(3+) salt (3:2)	A4	-	-	-	-	-
Sulphuric acid	A2	1	-	-	Known to be a human carcinogen.	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result
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Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
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Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
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Not available.

Chronic effects on humans : **CARCINOGENIC EFFECTS**: Classified A4 (Not classifiable for humans or animals.) by ACGIH [sulfuric acid, rhodium(3+) salt (3:2)]. Classified 1 (Proven for humans.) by IARC, 1 (Known to be human carcinogens.) by NTP [Sulphuric acid]. Classified A2 (Suspected for humans.) by ACGIH [Sulphuric acid].

Contains material which causes damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, eye, lens or cornea, teeth.

Other toxic effects on humans : Hazardous by the following route of exposure: of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous by the following route of exposure: of ingestion.

Special remarks on other toxic effects on humans : **Sulphuric acid**: Ingestion can cause serious damage to the oral cavity and to the gullet and presents a risk of perforation of the digestive tract and of the stomach.

Sensitization

11 . Toxicological information

- Ingestion** : May cause burns to mouth, throat and stomach.
Inhalation : No known significant effects or critical hazards.
Eyes : Corrosive to eyes. Causes burns.
Skin : Corrosive to the skin.

12 . Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Sulphuric acid	-	Acute LC50 42 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

- Environmental precautions** : No known significant effects or critical hazards.
Mobility : Not available.
Other adverse effects : No known significant effects or critical hazards.
Additional information : Before discharge treat according to the state of the art.

13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

- Additional information** : Contaminated packaging
 Empty containers can be landfilled after cleaning, when in compliance with local regulations.



If there is product residue in the emptied container, follow directions for handling on the container's label.

Waste code

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

14 . Transport information

IMDG Segregation Code 1

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN3264	☑Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid, rhodium(3+) salt (3:2), Sulphuric acid) RQ (Sulphuric acid)	8	III		<p>Reportable quantity 10101 lbs / 4585.9 kg [1048.9 gal / 3970.4 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Limited quantity Yes.</p> <p>Packaging instruction Passenger aircraft Quantity limitation: 5 L Cargo aircraft Quantity limitation: 60 L</p> <p>Special provisions IB3, T7, TP1, TP28</p>
TDG Classification	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulfuric acid, rhodium (3+) salt (3:2), Sulphuric acid)	8	III		<p>Explosive Limit and Limited Quantity Index 5</p> <p>Passenger Carrying Road or Rail Index 5</p> <p>Special provisions 16</p>

14 . Transport information

Mexico Classification	UN3264	LIQUIDO CORROSIVO, ACIDO, INORGANICO, N. E.P. (sulfuric acid, rhodium (3+) salt (3:2), Sulphuric acid)	8	III		Special provisions 223, 274
ADR/RID Class	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (sulfuric acid, rhodium (3+) salt (3:2), Sulphuric acid)	8	III		Hazard identification number 80 Limited quantity 5 L Special provisions 274 Tunnel code (E)
IMDG Class	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (sulfuric acid, rhodium (3+) salt (3:2), Sulphuric acid)	8	III		Emergency schedules (EmS) F-A, S-B Special provisions 223, 274
IATA-DGR Class	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid, rhodium(3+) salt (3:2), Sulphuric acid)	8	III		Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 852 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 856 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y841 Special provisions A3, A803

15 . Regulatory information

HCS Classification	: Toxic material Corrosive material Carcinogen Target organ effects
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. SARA 302/304: Sulphuric acid SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed (chronic) health hazard Clean Water Act (CWA) 311: Sulphuric acid Clean Air Act (CAA) 112 accidental release prevention: No products were found.

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: Sulphuric acid	7664-93-9	<10
Supplier notification	: Sulphuric acid	7664-93-9	<10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	: Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed. Florida substances: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed. Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed. Massachusetts Substances: The following components are listed: SULFURIC ACID Michigan Critical Material: None of the components are listed. Minnesota Hazardous Substances: None of the components are listed. New Jersey Hazardous Substances: The following components are listed: SULFURIC ACID; DIHYDROGEN SULFATE New Jersey Spill: None of the components are listed. New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: The following components are listed: Sulfuric acid New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: The following components are listed: SULFURIC ACID Rhode Island Hazardous Substances: None of the components are listed. WARNING: This product contains a chemical known to the State of California to cause cancer.
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<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Sulphuric acid	Yes.	No.	No.	No.

Canada inventory : All components are listed or exempted.

15 . Regulatory information

EU regulations

Hazard symbol or symbols :



Risk phrases : R34- Causes burns.

Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

International regulations

International lists :

- Australia inventory (AICS)**: All components are listed or exempted.
- China inventory (IECSC)**: All components are listed or exempted.
- Japan inventory**: All components are listed or exempted.
- Korea inventory**: All components are listed or exempted.
- Malaysia Inventory (EHS Register)**: At least one component is not listed.
- New Zealand Inventory of Chemicals (NZIoC)**: At least one component is not listed.
- Philippines inventory (PICCS)**: All components are listed or exempted.
- Taiwan inventory (CSNN)**: At least one component is not listed.

Canada :

- CEPA Toxic substances**: None of the components are listed.
- Canadian ARET**: None of the components are listed.
- Canadian NPRI**: The following components are listed: Sulphuric acid
- Alberta Designated Substances**: None of the components are listed.
- Ontario Designated Substances**: None of the components are listed.
- Quebec Designated Substances**: None of the components are listed.

USA :

- TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
- United States inventory (TSCA 8b)**: All components are listed or exempted.

16 . Other information

Label requirements : CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

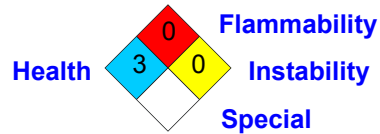
Hazardous Material Information System (U.S.A.) :

Health	3
Flammability	0
Physical hazards	0

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 MSDSs 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.

National Fire Protection Association (U.S.A.) :



Date of issue : 3/4/2014.

Date of previous issue : 3/4/2014.

Version : 2.01

▣ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained in this Material Safety Data Sheet is accurate and reliable on presently available resources. However, neither the seller nor any of its subsidiaries assumes any responsibility or liability whatsoever for the accuracy or completeness of the information contained herein.

This Material Safety Data Sheet shall not constitute a guarantee for any specific product features. Final determination of suitability of this material is the sole responsibility of the user.

All materials may present unknown hazards and should be used and handled with caution and following reasonable safety procedures. Consequently the buyer assumes all risks in connection with the use and handling of this material.