

Safety Data Sheet

RO-59tm88

Date: 06/01/2021

Version: 14

1. Identification

GHS product identifier RO-59tm88
Alternate Names PTFE

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

Intended use Deposits PTFE coating on aluminum surfaces.
Application Method See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name RO-59, Inc.
One Cabot Place
Stoughton, MA 02072

Emergency
24 hour Emergency Telephone No. 1-800-424-9300
Customer Service: RO-59, Inc. 1-781-341-1222

2. Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

TOXIC TO REPRODUCTION (unborn child) - Category 1B

GHS Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



H360 May damage the unborn child.

Precautionary statements

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Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Wear protective gloves / eye protection / face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice / attention.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents / container in accordance with local / national regulations.

Supplemental label elements: Hazards not otherwise classified.

Do not taste or swallow.

Avoid contact with skin and clothing.

Wash thoroughly after handling.

Causes digestive tract burns.

Prolonged or repeated contact may dry skin and cause irritation.

HMIS Ratings

Health: 2

Flammability: 1

Physical hazards: 0

Personal protection:

The PPE (Personal Protection Equipment) designation in the HMIS is provided for use by employees at supplier sites only. Other users of this product are encouraged to evaluate the hazards of the product and assign PPE that is applicable to their specific situations.

CAUTION: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program.

HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller 1-800-327-6868.

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

3. Composition/information on ingredients

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This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Solids CAS Number(s): Proprietary	2.8-3.6	H360 May damage the unborn child	[1]
Urethane Polymer CAS Number: Proprietary	10-25	Not Classified	[2]
Polytetrafluoroethylene CAS Number: 9002-84-0	75-100	Not Classified	[2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] RO-59, Inc. use insignificant amounts.

[2] This product contains no components present at levels greater than or equal to 0.1% listed by OSHA, IARC, NTP or ACGIH as a carcinogen.

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

4. First aid measures

Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Immediately flush the eyes with large amounts of water for at least 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Call a physician at once.
Skin	Wash skin thoroughly with soap and water or use a recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it or wear gloves. Continue to rinse for at least 10 minutes. In all cases of doubt, or when symptoms persist, seek medical attention.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

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Inhalation: Inhalation may cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Corrosive to the digestive tract. Causes burns.

Skin: May cause skin irritation.

Eyes: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No specific data.

Inhalation: Adverse symptoms may include the following:

- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

Skin contact: Adverse symptoms may include the following:

- Irritation
- Dryness
- Cracking
- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

Ingestion: Adverse symptoms may include the following:

- Stomach pains
- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

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

Notes to physician: In case of inhalation or decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

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

See toxicological information (Section 11)

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5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contained with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products: Decomposition products may include the following materials:

Carbon dioxide
Carbon monoxide
Nitrogen oxides
(dense) black smoke
Aldehydes
Organic acids

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personnel protective equipment.

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

Environmental precautions: Do not allow spills to enter drains or waterways.

Methods and materials for containment and cleaning up

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.

Large Spill: Stop leak if without risk. Move containers from spilled 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

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diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating and drinking and smoking should be prohibited where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure – obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the materials 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, keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general Occupational hygiene:

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

Conditions for safe storage, including any incompatibilities:

Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. 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 environment contaminations. Store in original container, protected from direct sunlight.

8. Exposure controls and personal protection

Control parameters

CAS No.	Ingredient	Source	Occupational exposure Limits
Proprietary	tm88	AIHA WEEL (United	TWA: 10 ppm 8 hours

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		States, 10/2011) Absorbed through skin	
		ACGIH TLV (United States, 4/2014) Absorbed through skin	TWA: 1 ppm 8 hours TWA: 4.1 mg/m ³ 8 hours STEL: 3 ppm 15 minutes STEL: 12 mg/m ³ 15 minutes
		OSHA PEL 1989 (United States, 3/1989)	TWA: 10 ppm 8 hours TWA: 40 mg/m ³ 8 hours STEL: 15 ppm 15 minutes STEL: 60 mg/m ³ 15 minutes
		OSHA PEL (United States, 2/2013)	TWA: 25 ppm 8 hours TWA: 100 mg/m ³ 8 hours

Appropriate engineering controls

Environmental exposure controls:

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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

Individual protection measures

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

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

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 case of mixtures, consisting of several substances, the protection time of the gloves

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cannot be accurately estimated. >8 hours (breakthrough time): fluor rubber (0.70mm) <1 hour (breakthrough time): Nitril rubber (0.5 mm)

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates that 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.

Remarks: If respiratory protection is needed, use a NIOSH certified respirator with an Assigned Protect Factor (APF) of at least 10.

9. Physical and chemical properties

Appearance

Physical state: Liquid
Color: Milky white
Odor: Amine-like [Slight]
Odor threshold: Not available
pH: 6.0-8.5
Melting point: Not available
Flash point: Closed cup >212°F (>100°C) [(estimate)]
Evaporation rate: Not available
Flammability (solid, gas) Not available

Lower and upper explosive (flammable) limits: Not available

Vapor pressure: Not available
Vapor density: Not available
Relative density: 1.06 (Water = 1)
Density (g/cm³): 1.06 g/m³ (20°C)
Bulk density: Not available
Solubility: Not available
Solubility in water: Not available

Partition coefficient: noctanol/water: Not available

Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Dynamic (room temperature): 50 to 450 mPa·s (50 to 450 cP)

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Kinematic (room temperature): >0.47 cm²/s (>47 cSt)

10. Stability and reactivity

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

Chemical stability: Stable under normal circumstances.

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

Conditions to avoid: No specific data.

Incompatible materials: No specific data.

Hazardous decomposition products: No specific data.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product / Ingredient: tm88

Result	Species	Dose	Exposure
LC50 Inhalation dusts and mists	Rat	>5.1 mg/l	4 hours
LD50 Dermal	Rabbit	8000 mg/kg	-
LD50 Dermal	Rat	7000 mg/kg	-
LD50 Dermal	Rat	>5000 mg/kg	-
LD50 Oral	Rat	3600 mg/kg	-
LD50 Oral	Rat	4150 mg/kg	-
LD50 Inhalation Vapor	Rat	7.1 mg/l	4 hours
LD50 Dermal	Rabbit	570 mg/kg	-
LD50 Oral	Rat	460 mg/kg	-

Irritation / Corrosion

Product / Ingredient: tm88

Result	Species	Score	Exposure	Observation
Skin - Mild irritant	Rabbit	-	365 mg	-
Skin - Visible necrosis	Rabbit	-	1 to 15 minutes	26 hours
Eyes - Cornea	Rabbit	3	-	-

Sensitization

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Product / Ingredient: tm88

Result	Route of exposure	Species	Result
Skin	Skin	Guinea pig	Not sensitizing

Mutagenicity

Product / Ingredient: tm88

Test	Experiment	Results
Ames	Experiment: In vitro Subject: Bacteria	Negative
Ames	Experiment: In vitro Subject: Bacteria	Negative
-	Experiment: In vitro Subject: Mammalian-Animal	Negative

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Specific target organ toxicity (single exposure)

Product / Ingredient: tm88

Category	Route of exposure	Target organs
3	Not applicable	Respiratory tract irritation.

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Information on the likely routes of exposure: Not available

Potential acute health effects

Eye Contact : No known significant effects or critical hazards.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact : Causes skin irritation.

Ingestion : Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

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Inhalation : Adverse symptoms may include the following:
Reduced fetal weight
Increase in fetal deaths
Skeletal malformations

Skin contact : Adverse symptoms may include the following:
Irritation
Dryness
Cracking
Reduced fetal weight
Increase in fetal deaths
Skeletal malformations

Ingestion : Adverse symptoms may include the following:
Stomach pains
Reduced fetal weight
Increase in fetal deaths
Skeletal malformations

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

Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Potential chronic health effects

Product / Ingredient: tm88

Result	Species	Dose	Exposure
Sub-chronic NOAEC Inhalation Vapor	Rat	247 ppm	28 weeks: 6 hours per day

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: May damage the unborn child.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

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Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	17029.2 mg/kg
Dermal	36981.8 mg/kg
Inhalation (gases)	291961.3 ppm
Inhalation (vapors)	460.7 mg/l
Inhalation (dusts and mists)	97.32 mg/l

12. Ecological information

Toxicity

Product / Ingredient: tm88

Result	Species	Exposure
Acute EC50>9000 mg/l	Bacteria	48 hours
Acute EC50>1000 mg/l	Daphnia	24 hours
Acute EC50>600 mg/l	Micro-organism	0.5 hours
Acute IC50>500 mg/l	Algae	72 hours
Acute LC50>500 mg/l	Fish	96 hours
Chronic NOEC 12.5 mg/l	Daphnia	21 days
Acute EC50 1.167 mg/l	Algae	96 hours
Acute EC50 95 mg/l	Bacteria	17 hours
Acute LC50 17 mg/l	Daphnia	48 hours
Acute LC50 36 mg/l	Fish	96 hours
Acute NOAEC 12 mg/l	Daphnia	48 hours
Acute NOEC 16 mg/l	Fish	-
Chronic LC50 137 mg/l	Fish	60 days
Chronic NOEC 7.1 mg/l	Daphnia	7 days
Chronic NOEC 3.2 mg/l	Fish	60 days

Persistence and degradability: Not available

Product / Ingredient: tm88

Test	Results	Dose	Inoculum
301C Ready Biodegradability - Modified MITI Test (I)	73% - Readily - 28 days	-	-
OECD 301B Ready Biodegradability - CO ₂ Evolution Test	80% - Readily - 21 days	-	-

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Bioaccumulative potential

Product / Ingredient: tm88

LogP _{ow}	BCF	Potential
-0.46	0.2	Low
1.45	<0.5	low

Mobility in soil

Soil/water partition coefficient (Koc): Not available

13. Disposal considerations

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Product / Ingredient: tm88

CAS #	Status	Reference number
121-44-8	Listed	U404

14. Transport information

DOT TDG Mexico ARD/RID IMDG IATA

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	Classification	Classification	Classification	Classification	Classification	Classification
UN number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-	-	-	-
Transport Hazard class	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No	No	No	No	No	No
Additional information	-	-	-	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73.78 and the IBC Code: Not available

15. Regulatory information

U.S. Federal Regulation

United States Inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: triethylamine

	Product / ingredients name	CAS #	%
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPS)	tm88	121-44-8	1.5413

Clean Air Act Section 602
Class I Substances : Not listed

Clean Air Act Section 602
Class II Substances : Not listed

DEA List 1 Chemicals
(Precursor Chemicals) : Not listed

DEA List II Chemicals
(Essential Chemicals) : Not listed

SARA 313

	Product name	CAS #	%
Form R - Reporting requirements	tm88	872-50-4 121-44-8	9.0778 1.5413
Supplier notification	tm88	872-50-4 121-44-8	9.0778 1.5413

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State regulations

Massachusetts : The following components are listed: tm88

New York : The following components are listed: tm88

New Jersey : The following components are listed: tm88

Pennsylvania : The following components are listed: tm88

California Proposition 65

WARNING! This product contains a chemical, which is known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Chemical Name: Aliphatic Urethane

Product / Ingredient: tm88

Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
No	Yes	No	3200 ug/day (inhalation)

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed		

Montreal Protocol (Annexes A,B,C,E)

Ingredient name	List name	Status
Not listed		

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed		

Rotterdam Convention on Prior Inform Cosent (PIC)

Ingredient name	List name	Status
Not listed		

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UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Not listed		

Canada Inventory: All components are listed or exempted.

16. Other information

Original Issue Date: 04/20/2015

Revision Date: 06/01/2021

Revision Notes:

No information available.

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. (“Marpol” = Marine pollution)
UN – United Nations

Notice to reader

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications. The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product’s intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

We believe all the data and information given is accurate as of the date of preparation and is offered in good faith, but without warranty or representation. Since conditions of use are beyond our control, we disclaim all liability for reliance thereon. This is offered solely for your consideration, investigation and verification.

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