

SAFETY DATA SHEET



Date of Issue / Date of Revision : November 20, 2015
Version : GHS-2

Section 1. Identification

Product Name: : Standard Urethane Reducer
Product Code: : UR-11
Alias Codes: : UR-011

Product Type: : Liquid, Component (mixed with other items for use)
Product Use: : Reducer/Thinner for use by professionals in Vehicle Refinishing spray booths.

Supplier : Bayou Innovations, LLC
38 South Park Drive
Perkinston, Ms 39573

Emergency Telephone Number : 1-800-255-3924 (ChemTel Available 24 hours a day 7 days a week)
Non-Emergency Support : 1-601-928-4143 (Monday-Friday 8:00 am to 5:00 pm CST)

Section 2. Hazards Identification

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

Classification of the Substance or Mixture : Flammable liquids: Category 3
Acute toxicity (Inhalation): Category 4
Toxic to reproduction (unborn child): Category 2
Specific target organ toxicity - single exposure: Category 3 (Respiratory irritation)
Specific target organ toxicity - single exposure: Category 3 (narcotic effects)
Specific target organ toxicity - repeated exposure (Inhalation): Category 2

**GHS Label Elements
Hazard Pictograms** :



Signal Word

Hazard Statements

Danger
Flammable liquid and Vapor
May be fatal if swallowed and enters airways
May cause respiratory irritation
Causes serious eye irritation
Causes skin irritation
Suspected of damaging the unborn child
Suspected of causing cancer
May cause drowsiness and dizziness
May cause damage to organs through prolonged or repeated exposure

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Section 2. Hazards Identification

Precautionary Statements

Prevention

Read all safety precautions and obtain special instructions as needed before use. Use personal protective equipment as required. Wear protective gloves, eye, and or face protection. Keep away from heat, sparks, flame, hot surfaces, open flames, sparks and any other potential ignition sources. No smoking. Use explosion proof wiring, electrical, ventilation, lighting and material handling equipment. Use non sparking tools. Take precautionary measures against static discharge. Keep containers tightly closed. Use in well ventilated areas. Do not breath vapors. Wash hands thoroughly after handling.

Response

Get medical attention immediately if you feel unwell. If exposed or concerned get medical attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CONTROL CENTER or physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation continues get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists get medical attention.

Storage

Store locked up in a cool, well ventilated place.

Disposal

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

Supplemental label elements

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/spray mist concentrations above recommended exposure limits causes headaches, drowsiness, nausea, and may lead to unconsciousness or death. Avoid contact with skin or clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

Prolonged or repeated contact may dry skin and cause irritation

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Section 4. First Aid Measures

Most important symptoms / effects, acute and delayed

Potential Acute Health Effects

- Eye Contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin Contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs / symptoms

- Eye Contact** : Adverse symptoms may include the following:
Pain or Irritation
Watering
Redness
- 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:
Reduced Fetal Weight
Increase in Fetal Deaths
Skeletal Malformations

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

- Notes to Physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific Treatments** : No specific treatment.
- Protection of First-Aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

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Section 5. Fire-Fighting Measures

Extinguishing Media

- Suitable Extinguishing Media** : Use dry chemical, CO2, Water Spray (Fog) or Foam.
Unsuitable Extinguishing Media : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
Carbon Dioxide
Carbon Monoxide
Metal Oxide/Oxides

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

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

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 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** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

- Small Spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large Spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage

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Section 6. Accidental Release Measures

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

Section 7. Handling And Storage

Precautions for Safe Handling

- Protective Measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure – obtain special instruction before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Ingestion of product or cured coating may be harmful. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be store in purpose built containers or in metal containers with tight fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- 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** : Do not store above 49C (120F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

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Section 8. Exposure Controls / Personal Protection

Control Parameters

Occupational Exposure Limits

INGREDIENT	ACGIH Threshold (TWA)	ACGIH Threshold (STEL)	OSHA Permissible Limit (TWA)
N-BUTYL ACETATE	150 ppm	200 ppm	150 ppm
LIGHT AROMATIC SOLVENT	50	150	50
XYLENES	100 ppm	150 ppm	100 ppm
methyl n-amyl ketone	50 ppm	NE	100 ppm
METHYL ISOBUTYL KETONE	20 ppm	75 ppm	50 ppm
DIMETHYL KETONE	750 ppm	1000 ppm	750 ppm
ETHYL BENZENE	100 ppm	150 ppm	100 ppm
ethyl-3-ethoxy propionate	NE	100	NE
1,2,4 TRIMETHYL BENZENE	25	NE	NE
TOLUENE	20 ppm	150 ppm	20 ppm
CUMENE	25 ppm	NE	25 ppm

Unless otherwise noted TWA data based on 8 hours and STEL data based on 15 minutes exposure.

Key to Abbreviations

A	=	Acceptable Maximum Peak	S	=	Potential Skin Absorption
ACGIH	=	American Conference of Governmental Industrial Hygienists	SR	=	Respiratory Sensitization
C	=	Ceiling Limit	SS	=	Skin Sensitization
F	=	Fume	STEL	=	Short Term Exposure Limit Values
PEL	=	Permissible Exposure Limit	TD	=	Total Dust
OSHA	=	Occupational Safety and Health Administration	TLV	=	Threshold Limit Value
R	=	Respirable	TWA	=	Time Weighted Average
Z	=	OSHA 29CFR 1910.1200 Subpart Z – Toxic and Hazardous Substances	NE	=	Not Established

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls:** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection

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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** : Chemical splash goggles.
- 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 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.
- Gloves** : For prolonged or repeated handling, use the following type of gloves: butyl Rubber.
- Body Protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other Skin Protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory Protection** : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.

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Section 9. Physical and Chemical Properties

Appearance

Physical State	: Liquid
Color	: Clear
Odor	: Characteristic of Organic Solvents
Odor Threshold	: Not available
pH	: Not available
Melting Point	: Not available
Boiling Point	: Greater Than 45C (113 F)
Flash Point	: Closed cup: 25.6C (78F)
Material Supports Combustion	: Yes
Auto-Ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower and Upper Explosive (flammable) limits	: Lower: 0.62% Upper: 8.2%
Evaporation Rate	: Not available
Vapor Pressure	: Not available
Vapor Density	: Heavier than air
Relative Density	: 0.85
Density (lbs / gal)	: 7.05
Solubility	: Soluble in most organic solvents and blends thereof. Insoluble in water.
Partition coefficient: n-octanol/water	: Not available
Viscosity	: < 100 cPs
Volatility	: 100% (w/w)
% Solid. (w/w)	: Not Applicable

Section 10. Stability and Reactivity

Chemical Stability	: The product is stable.
Possibility of Hazardous Reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	: When exposed to extreme high temperatures produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible Materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous Decomposition Products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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Section 11. Toxicological Information

Overview/Summary

There is no testing data available for this mixture. However, based on the properties of the individual components we can generally Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Likely Routes of Exposure:

Skin Contact
Inhalation
Eye Contact

Over-exposure Symptoms

Eye Contact

Pain & Irritation, redness, and watering can all be signs of overexposure.

Inhalation

Nausea, vomiting, headache, drowsiness, fatigue, dizziness, vertigo, unconsciousness, decreased fetal weight and increased fetal death may all be signs of overexposure.

Skin Contact

Irritation, redness, dryness, and cracking of the skin, decreased fetal weight, increased fetal death, and skeletal malformations may all be signs of overexposure.

Ingestion

nausea, vomiting, burning sensation in the mouth or throat, reduced fetal weight, increased fetal deaths, and skeletal malformations may be a sign of overexposure

Potential Acute (immediate) Health Effects

Eye Contact

Serious eye irritation

Inhalation

Central nervous system depression, drowsiness, and dizziness

Skin Contact

Skin irritation and defatting of the skin.

Ingestion

Central Nervous system depression

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Section 11. Toxicological Information

Potential Chronic (Long Term) Health Effects

General	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated exposure can defat the skin and lead to irritation, cracking, and dermatitis.		
Carcinogenicity	This product contains ingredients suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		
	MIBK		IARC 2B
	Toluene		IARC 3
	Xylene		IARC 3
	Ethylbenzene		IARC 2B
Teratogenicity	Suspected of damaging the unborn child.		

Toxicity Data

There are no data available on the mixture itself. For toxicology data on the individual components refer to the safety data sheet for those components found in section 8 of this document.

Section 12. Ecological Information

Data is not available regarding the effects of this mixture on the environment. For more detailed information on available ecological data refer to the data sheets of the individual components of this product as shown in section 3.

Aquatic Toxicity

Based on the ingredients found within this product it is reasonable to expect that this product could be damaging to aquatic life and detrimental to drink water even in small quantities. All precautions must be taken to prevent exposure to the environment and contain spillage.

Soil Mobility

Soil mobility is expected to be relatively low based on the ingredients found within this product.

Biodegradability

Under normal conditions the solvents comprised of this product readily degrade in the environment.

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Section 13. Disposal Considerations

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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. Vapor from product residues may create a highly flammable or explosive atmosphere. Do not mix with incompatible materials for disposal.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN1263	UN1263	UN1263
UN Proper Shipping Name	PAINT	PAINT	PAINT
Transport Hazard Class (es)	3	3	3
Packing Group	III	III	III
Environmental Hazards	No.	Yes	No.
Marine Pollutant Substances	Not applicable.	Solvent Napthas	Not applicable.

Additional Information

- DOT** : Under certain conditions this product may be re-classified as "limited quantity" unless transported by vessel or aircraft.
- IMDG** : The marine pollutant mark is not required when transported in sizes of <5L or <5kg
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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.

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Section 15. Regulatory Information

United States Inventory (TSCA 8b)
Canada Inventory (DSL)

All components are listed.
All components are listed or exempted

SARA 302/304 Reportable Quantities

Not Applicable

SARA 311/312 Classification

Fire Hazard
Acute (Immediate) Health Hazard
Chronic (Delayed) Health Hazard

SARA 311/312/313 Ingredient Info

INGREDIENT	CAS#	Weight%	Fire Hazard	Sudden Release of Pressure	Reactive	Acute Health Hazard	Chronic Health Hazard	SARA 313 Reportable
N-BUTYL ACETATE	123-86-4	20-30%	Yes	No	No	Yes	No	No
LIGHT AROMATIC SOLVENT	64742-95-6	10-20%	Yes	No	No	Yes	No	No
XYLENES	1330-20-7	10-20%	Yes	No	No	Yes	No	Yes
methyl n-amyl ketone	110-43-0	10-20%	Yes	No	No	Yes	No	No
METHYL ISOBUTYL KETONE	108-10-1	10-20%	Yes	No	No	Yes	Yes	Yes
DIMETHYL KETONE	67-64-1	5-10%	Yes	No	No	Yes	No	No
ETHYL BENZENE	100-41-4	5-10%	Yes	No	No	Yes	Yes	No
ethyl-3-ethoxy propionate	763-69-9	5-10%	Yes	No	No	Yes	No	No
1,2,4 TRIMETHYL BENZENE	95-63-6	2-5%	Yes	No	No	Yes	No	Yes
TOLUENE	108-88-3	1-5%	Yes	No	No	Yes	Yes	Yes
CUMENE	98-82-8	0-1%	Yes	No	No	Yes	Yes	Yes

Prop 65 Statement: This product contains ingredients known to the State of California to cause cancer, birth defects, and other reproductive harm.

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Section 16. Other Information

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

Health: 3 (*) Flammability: 3 Physical Hazards: 1

(*) Chronic Effects

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.)

Health: 3 (*) Flammability: 3 Physical Hazards: 1

Date of Previous Issues :

Organization that Prepared the SDS : Internal

Key to Abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling 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

Disclaimer:

The information contained in this data sheet is based on present scientific and technical knowledge. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.