

### SAFETY DATA SHEET

#### PERMUTEX® RU-41-206

#### **Section 1. Identification**

GHS product identifier : PERMUTEX® RU-41-206
Product description : Aqueous polyurethane resin
Other means of : Not available.

Other means of identification

**Product type** : liquid

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

#### **Identified uses**

Water based polyurethane binder for use in water based coatings, finishings or formulations. Product for treatment of leather and other flexible material.

**Supplier's details** : Stahl USA Inc.

13 Corwin street 01960 Peabody

US

Telephone:+19785310371 Telefax:+19785325333 Email: msds@stahl.com

**Emergency telephone number (with hours of** 

operation)

+1 866 928 0789 / +1 215 207 0061 (NCEC)

24HRS (FOR CHEMICAL EMERGENCIES ONLY)

#### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

**WHMIS (Canada)** : Class D-2B: Material causing other toxic effects (Toxic).

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#### PERMUTEX® RU-41-206

Classification of the substance or mixture

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION (Unborn child) - Category

1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### **GHS** label elements

Hazard pictograms





Signal word : Danger

**Hazard statements** : Causes serious eye irritation.

Causes skin irritation.

May damage the unborn child. May cause respiratory irritation.

#### **Precautionary statements**

Version:

5.1

**General** : Not applicable.

**Prevention** : Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear

protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands

thoroughly after handling.

**Response** : IF exposed or concerned: Get medical attention. IF

INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 eye irritation

persists: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all



local, regional, national and international regulations.

Hazards not otherwise

classified

: None known.

#### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product description** : Aqueous polyurethane resin

Other means of : Not available.

identification

Version:

#### **CAS number/other identifiers**

**Product code** : P41206

Ingredient name	<b>%</b>	CAS number
2-Pyrrolidinone, 1-methyl-	>= 10 - <= 25	872-50-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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

#### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained



Skin contact

**Ingestion** 

personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

: Flush contaminated skin with plenty of water. 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. Get

medical attention. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

: 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 do 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 a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### **Potential acute health effects**

**Eye contact** : Causes serious eye irritation.

**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** : 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:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

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** : In case of inhalation of 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

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)** 

### **Section 5. Firefighting measures**

#### Extinguishing media

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**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.

Hazardous thermal decomposition products

Decomposition products may include the following

materials:

carbon dioxide carbon monoxide nitrogen oxides

Special protective actions for

fire-fighters

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.

**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. Avoid breathing vapor or mist. Provide adequate

ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment.

For emergency responders

Version:

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).

#### 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 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 noncombustible, 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** 

Version:

Put on appropriate personal protective equipment (see Section 8). 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept 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 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. 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 environmental contamination. Keep from freezing. Stir before use.

#### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
2-Pyrrolidinone, 1-methyl-	AIHA WEEL (1999-01-01) TWA, 10 ppm Notes: This chemical was reaffirmed and is included in the 2010 Update Set TWA, 10 ppm Notes: Absorbed through skin.

### **Appropriate engineering controls**

Use only with adequate ventilation. 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.

## **Environmental exposure** controls

Version:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the

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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: chemical splash goggles.

#### **Skin protection**

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**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.

**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 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.

#### Section 9. Physical and chemical properties

#### **Appearance**

Physical state : liquid Color : Clear.

Odor : Characteristic.
Odor threshold : Not available.
pH : 7.5 - 8.5

**Melting point** : Not available. **Boiling point** : 100 °C (212 °F)

Flash point : Not applicable.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

Lower and upper explosive

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

**Relative density** : 1.058 @ 20 °C (68 °F)

**Solubility** : Miscible in water.

Partition coefficient: n-

octanol/water

n- Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

Viscosity : Dynamic: 75 - 450 mPa.s

**Kinematic:** Not available.

Lower: Not available.

**Upper:** Not available.

#### Section 10. Stability and reactivity



Not considered to be reactive according to our database. 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** No specific data.

No incompatible product according to our database. **Incompatible materials** 

**Hazardous decomposition** 

products

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

#### Section 11. Toxicological information

#### **Information on toxicological effects**

Acute toxicity

1200100 00122020						
Product/ingredient	Result	Species	Dose	Exposure		
name						
2-Pyrrolidinone, 1-methyl-						
	LD50 Oral	Rat	3,914 mg/kg	-		
	LD50 Dermal	Rabbit	8,000 mg/kg	-		

**Conclusion/Summary** : Not available.

#### **Irritation/Corrosion**

Product/ingredient	Result	Species	Score	Exposure	Observati
name					on
2-Pyrrolidinone, 1-	Eyes - Moderate	Rabbit	-		-
methyl-	irritant				

**Conclusion/Summary** 

Not available. Skin Not available. **Eyes** Respiratory Not available.

#### Sensitization

**Conclusion/Summary** 

Skin : Not available. Respiratory Not available.

**Mutagenicity** 

: Not available. **Conclusion/Summary** 

**Carcinogenicity** 

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available.

#### **Specific target organ toxicity (single exposure)**

Name	Category	Route of	Target organs
		exposure	
2-Pyrrolidinone, 1-methyl-	Category 3	Not applicable	Respiratory tract
			irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

**Information on likely routes** : Not available.

of exposure

**Potential acute health effects** 

Causes serious eye irritation. **Eye contact** 

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**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** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

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

#### Delayed and immediate effects as well as 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**



**Conclusion/Summary** : Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo 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.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	23,944.6 mg/kg

#### Section 12. Ecological information

#### **Toxicity**

Product/ingredient	Result	Species	Exposure		
name					
2-Pyrrolidinone, 1-methyl-					
	Acute LC50 832 mg/l Fresh	Fish - Lepomis	96 h		
	water	macrochirus			

**Conclusion/Summary** : Not available.

#### Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-Pyrrolidinone, 1-methyl-	-0.46-0.46	•	low

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#### **Mobility in soil**

Soil/water partition coefficient (KOC)

: Not available.

Other adverse effects

No known significant effects or critical hazards.

#### 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	DOT	TDG	Mexico	ADR/RID	IMDG	IATA
	Classificati	Classificati	Classificati			
	on	on	on			
UN	Not	Not	Not	Not	Not	Not
number	available.	available.	available.	available.	available.	available.
UN	Not	Not	Not	Not	Not	Not
proper	regulated.	regulated.	regulated.	regulated.	regulated.	regulated.
shipping						



name						
Transport	-	-	-	-	-	-
hazard						
class(es)						
Packing	-	-	-	-	-	-
group						
Environm	No.	No.	No.	No.	No.	No.
ental						
hazards						
Additional	-	Not	-	<b>Special</b>	<b>Marine</b>	-
informatio		applicable.		provisions:	pollutant:	
n				-	No.	
				<b>Tunnel</b>		
				code: -		

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 and the IBC Code

Not available.

#### Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not

determined

United States - TSCA 8(a) - Preliminary assessment report

(PAIR): Poly(oxy-1,2-ethanediyl), .alpha.-

(nonylphenyl)-.omega.-hydroxy-;

United States inventory (TSCA 8b): All components

are listed or exempted.

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Ethanamine, N,N-diethyl; Ethanamine, Methanamine;

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

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Listed



Clean Air Act Section 602 :

Not listed

**Class I Substances** 

**Clean Air Act Section 602** 

Not listed

**Class II Substances** 

**DEA List I Chemicals** 

Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

Not listed

(Essential Chemicals)

#### **SARA 302/304**

#### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

**Classification**: Immediate (acute) health hazard

Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	%	Classification
2-Pyrrolidinone, 1-methyl-	>= 10 - <= 25	F, AH, CH

#### **SARA 313**

#### Form R - Reporting requirements

Product name	CAS number	<b>%</b>
2-Pyrrolidinone, 1-methyl-	872-50-4	>= 10 - <= 25

#### **Supplier notification**

Product name	CAS number	<b>%</b>
2-Pyrrolidinone, 1-methyl-	872-50-4	>= 10 - <= 25

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



subsequently redistributed.

#### **State regulations**

**Massachusetts** : The following components are listed:

2-Pyrrolidinone, 1-methyl-

**New York** : None of the components are listed.

**New Jersey** : The following components are listed:

2-Pyrrolidinone, 1-methyl-

**Pennsylvania** : The following components are listed:

2-Pyrrolidinone, 1-methyl-

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
2-Pyrrolidinone, 1- methyl-	No.	Yes.	No.	3200 μg/day
	No.	Yes.	No.	17000 µg/day

#### **International regulations**

#### **Chemical Weapon Convention List Schedules I, II & III Chemicals**

#### **Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

#### **Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

#### **Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

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



None of the components are listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

#### **Annex A - Elimination - Production**

None of the components are listed.

#### **Annex A - Elimination - Use**

None of the components are listed.

#### **Annex B - Restriction - Production**

None of the components are listed.

#### **Annex B - Restriction - Use**

None of the components are listed.

#### **Annex C - Unintentional - Production**

None of the components are listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

None of the components are listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

#### **Heavy metals - Annex 1**

None of the components are listed.

#### **POPs - Annex 1 - Production**

None of the components are listed.

#### POPs - Annex 1 - Use

None of the components are listed.

#### POPs - Annex 2

None of the components are listed.

#### POPs - Annex 3

None of the components are listed.

#### **International lists**



#### National inventory

**Canada** : All components are listed or exempted.

#### **Section 16. Other information**

Classification	Justification	
H315	Calculation method	
H319	Calculation method	
H360 (Unborn child)	Calculation method	
H335	Calculation method	

#### **History**

Date of printing : 02-19-2018 Date of issue/Date of : 02-20-2018

revision

**Date of previous issue**: 04-28-2016

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**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

**References** : Not available.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, 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 that exist.



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