



MATERIAL SAFETY DATA SHEET

GLOSS ENAMEL

1. Identification

GHS product identifier: GLOSS ENAMEL
Other means of identification: A good quality alkyd based high gloss enamel.
Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Suitable for the purpose of chalk writing on suitably primed surfaces.
Supplier's details: Pro-Paint Manufacturing (PTY) Ltd
4 Industrial Crescent
Bronkhorstspuit
1020
Emergency phone: 013 932 0020 (within hours of operation)

2. Hazards identification

Classification of the substance or mixture
FLAMMABLE LIQUID - Category 3
SERIOUS EYE DAMAGE/ IRRITATION - Category 1
SKIN CORROSION/ IRRITATION - Category 2
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE - Category 3
ACUTE TOXICITY (INHALATION) - Category 4
ACUTE TOXICITY (ORAL) - Category 5
ASPIRATION HAZARD - Category 1

RESPIRATORY SENSITIZATION - Category 1
AQUATIC TOXICITY (CHRONIC) - Category 2
SANS 10234: 2008

Label elements according to:

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Hazard pictograms:

Signal word:

Hazard statements:

Danger

H226 - Flammable liquid and vapour.

H303 - May be harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if Inhaled

H335 - May cause respiratory irritation.

H411 - Toxic to aquatic life with long-lasting effects.

Precautionary statements

General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Prevention:

P201 - Obtain special instructions before use.

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, lighting and all material- handling.

P242 - Use only non-sparking tools.

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Response:

- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe vapor.
- P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, eye protection or face protection.
- P284 - In case of inadequate ventilation wear respiratory protection.
- P312 - Call a POISON CENTER or physician if you feel unwell.
- P314 - Get medical advice or attention if you feel unwell.
- P362 - Take off contaminated clothing and wash before reuse.
- P391 - Collect spillage. Hazardous to the aquatic environment.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
- P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do – continue rinsing.

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Storage:

P337+313 - If eye irritation persists get medical advice/attention.

P370+380 - In case of fire: Evacuate area.

P410 - Protect from sunlight.

P402+404 - Store in a dry place. Store in a closed container.

P403+235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/containers in accordance with local regulation.

Disposal

Other hazards which do not Result in classification:

None identified.

3. Composition/information on ingredients

Substance/mixture:

Mixture

Other means of identification:

A good quality alkyd based high gloss enamel.

CAS number/other identifiers

CAS number:

Not applicable.

Ingredient name	CAS number	%	SANS 10234 Classification
Solvent naphtha (petroleum), medium aleph.	64742-88-7	10.0-15.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 5, H303 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Aquatic Chronic. 2, H411 Asp.Haz.1, H304 STOT - SE. 3, H335
Solvent naphtha (petroleum), heavy aroma.	64742-94-5	2.0-5.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 5, H303 Skin Irrit. 2, H315

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			Eye Irrit. 2B, H320 Aquatic Chronic. 2, H411 Asp.Haz.1, H304
Phthalic Anhydride	85-44-9	2.0-5.0	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 1, H318 Resp. Sen. 1, H334 Skin Sens. 1, H317 STOT - SE. 3, H335

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.

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. Get medical attention if irritation persists.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in

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Skin contact:

recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Remove contaminated clothing and shoes. Wash contaminated skin with soap or a recognised skin cleaner and plenty of water. Continue to rinse for at least 10 minutes. Avoid the use of solvents. Get medical attention if symptoms persist. Wash clothing before reuse. Clean shoes thoroughly before reuse

Ingestion:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash out mouth with water. Remove dentures if any. 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 if adverse health effects persist or are severe. 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

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Potential acute health effects

Eye contact :

Causes serious eye damage.

Inhalation :

Harmful if inhaled. May cause respiratory irritation.

Skin contact :

Causes skin irritation. May cause an allergic skin reaction.

Ingestion :

May be harmful if swallowed. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact :

Adverse symptoms may include pain or irritation, watering or redness.

Inhalation :

Adverse symptoms may include nausea or vomiting, headache, respiratory irritation.

Skin contact :

Adverse symptoms may include irritation or redness.

Ingestion:

May be fatal if swallowed and enters airways.

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. 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)

5. Fire-fighting measures

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Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire such as dry powder, CO₂, water spray (fog) or foam. Use fog to cool and control. Do not use water jet.

Unsuitable extinguishing media :

Specific hazards arising from from the chemical :

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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 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. Move containers from 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

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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 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 specialised 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

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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.

Use spark-proof tools and explosion-proof equipment. 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 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). Use spark-proof tools and explosion-proof equipment. 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

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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. 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.

**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

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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 unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not reuse container.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	ACGIH (United States). STEL: 200 ppm TWA: 100 ppm
Solvent naphtha (petroleum), heavy arom.	ACGIH (United States). TWA: 100 ppm TWA: 525 mg/m ³
Phthalic Anhydride	OHSA: TWA: OEL-RL: 1 ppm; 12 mg/m ³

Recommended monitoring

Procedures :

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the

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Appropriate engineering controls :

effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

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 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

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Eye/face protection :

that eyewash stations and safety showers are close to the workstation location.

Avoid direct contact. Never touch eyes with dirty hands or gloves. 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.

Hand protection :

Avoid direct contact. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical

Body protection :

products if a risk assessment indicates this is necessary. 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 :

Avoid direct contact. 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

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hazards of the product and the safe working limits of the selected respirator.

9. Physical and chemical properties

Physical state :	Liquid
Colour :	Opaque
Odor :	No data available
Odor threshold :	No data available
pH :	Not applicable
Melting point :	Not applicable
Boiling point :	No data available
Flash point :	>23 oC
Evaporation rate :	No data available
Flammability (solid, gas) :	No data available
Lower and upper explosive (flammable) limits :	No data available
Vapor pressure :	No data available
Vapor density :	No data available
Relative density :	0.99 (typical)
Solubility :	Soluble in organic solvents
Partition coefficient, n-octanol/water :	No data available
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Viscosity :	65-70 KU (typical)

10. Stability and reactivity

Reactivity :	Inert - no reaction with fire-fighting water.
Chemical stability :	Stable under normal conditions.
Possibility of hazardous reactions :	Under normal conditions of storage and use, hazardous reactions will not occur.

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Conditions to avoid :

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials :
Hazardous decomposition products :**

Any reactive substances – oxidisers in particular.

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

11. Toxicological information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), medium aliph.	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LC50 Inhalation	Rats	<20 m/l	4 hours
Phthalic Anhydride	LC50 Inhalation	Male Rat	>52.5 mg/m ³	4 hours
	LD50 Oral	Rat	2000 mg/kg	-
	LD50 Oral	Male Rat	4020 mg/kg	-
	LD50 Oral	Mouse	1500 mg/kg	-
	LD50 Dermal	Rabbit	>10000 mg/kg	-

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), medium aliph.	Skin - Mild irritant Eye - Moderate irritant	Rabbit Rabbit	<6 <15	=	=
Solvent naphtha (petroleum), heavy arom.	Skin - Mild irritant Eye - Moderate irritant	Rabbit Rabbit	<6 <15	=	=
Phthalic Anhydride	Skin - Mild irritant Eye - Moderate irritant	Rabbit Rabbit	=	=	=

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target Organs
Solvent naphtha (petroleum), medium aliph.	Category 3	Not determined	Not determined
Phthalic Anhydride	Category 3	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

Name	Result

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Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure :

Inhalation, skin and eye contact.

Potential acute health effects

Eye contact :

Causes serious eye damage.

Inhalation :

Harmful if inhaled. May cause respiratory irritation.

Skin contact :

Causes skin irritation. May cause an allergic skin reaction.

Ingestion :

May be harmful if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :

Adverse symptoms may include pain or irritation, watering or redness.

Inhalation :

Adverse symptoms may include nausea or vomiting, headache, respiratory irritation, drowsiness/fatigue or dizziness/vertigo..

Skin contact :

Adverse symptoms may include irritation or redness.

Ingestion :

May be fatal if swallowed and enters airways.

Potential Chronic health effects

General :

No known significant effects or critical hazards.

Carcinogenicity :

No known significant effects or critical hazards.

Mutagenicity :

No known significant effects or critical hazards.

Teratogenicity :

No known significant effects or critical hazards.

Developmental effects :

No known significant effects or critical hazards.

Fertility effects :

No known significant effects or critical hazards.

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Acute toxicity estimates
No data available.

12. Ecological information

Toxicity

Product/Ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), medium aliph.	Acute LC/EC50 8.1 mg/l Fish Acute LC/EC50 6 mg/l Aquatic organism Acute LC/EC50 9.4 mg/l Aquatic organism	Salmon Daphnia Green Algae	96 hours 48 hours 8 hours
Phthalic Anhydride	Acute LC50 313 mg/l Fish	L.idus	48 hours

Persistence and degradability

Product/Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Phthalic Anhydride	Fresh water 14 days	=	Readily

Bioaccumulative potential

No data available.

Mobility in soil

Soil/ water partition coefficient

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(KOC) :

No data available.

Mobility :

No data available.

PBT/vPvB data : P:

No data available. B: No data available. T: No data available.

Other adverse effects :

No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods :

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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 inside the container. Do not cut, weld or grind used

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containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	Transportation - road - SANS 10228:2012	Transportation- Maritime - IMO/ IMDG	Transportation- Air - IATA
UN number	<u>1263</u>	<u>1263</u>	<u>1263</u>
UN proper shipping name	Paint	<u>Paint</u>	<u>Paint</u>
Transport hazard class(es)	<u>3</u>	<u>3</u>	<u>3</u>
Packing group	<u>III</u>	<u>III</u>	<u>III</u>
Environmental hazards	Environmentally hazardous	Marine pollutant	Environmentally hazardous
Additional information	No data available	Emergency schedules (EmS) F-A, S-F	Passenger and Cargo Aircraft Ltd QTY: Quantity limitation: 30 kg Packaging instructions: Y964 Passenger and Cargo Aircraft: Quantity limitation: 450 L Packaging instructions: 964

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			Cargo Aircraft Only: Quantity limitation: 450 L Packaging instructions: 964
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No data available	No data available	No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product :

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions: None known.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: None. Standards used for PPE recommendations in Section 8: NIOSH-National Institute for Occupational Health and Safety (USA) EN 166- European standard which concerns the area of eye protection. EN 374-3 European standards for permeation and penetration. EN 141/EN 143 European standards for gas mixtures to remove specified gases and vapours or combined filters for removing solids, and/or liquid particles and specified gases and vapours.

16. Other information

History

Date of printing : January 2020
Date of previous issue : 2019

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Key to abbreviations :

ATE = Acute Toxicity Estimate
BCP 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)
OHS Act = Occupational Health and Safety Act, 1993 (South Africa)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations
Supplier safety data sheets.

References :

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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