

DB430 RED

Version Number 1.11 Revision Date 03/03/2015

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SAFETY DATA SHEET

DB430 RED

Section 1. Identification

DB430 RED **GHS** product identifier Chemical name Mixture CAS number Mixture FO00003940 Other means of identification **Product type** liquid

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

Product use Industrial applications. Plastics.

POLYONE CORPORATION Supplier's details

33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number

(with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. 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.

OSHA/HCS status While this material is not considered hazardous by the OSHA Hazard

> Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees

and other users of this product.

Classification of the substance or

mixture

Not classified.

Supplemental label elements None known.



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Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: FO00003940

CAS number/other identifiers

| Ingredient name | % | CAS number |
|--|---------|------------|
| Antimony trioxide | 1 - 5 | 1309-64-4 |
| Dibasic lead phthalate, C8H4O6Pb3 | 1 - 5 | 17976-43-1 |
| Molybdate orange (Lead chromate pigment) | 0.1 - 1 | 12656-85-8 |

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. | |
|--------------|---|--|
| | Get medical attention if irritation occurs. | |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable | |
| | for breathing. Get medical attention if symptoms occur. | |
| Skin contact | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. | |
| Ingestion | : Wash out mouth with water. 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 | |



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of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.

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

: May emit Hydrogen Chloride (HCl).

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds



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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.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained 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. 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).

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. 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)

container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section

1 for emergency contact information and Section 13 for waste

disposal.

Section 7. Handling and storage



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Precautions for safe handling

Protective measures Advice on general occupational hygiene

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. 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits | | |
|-----------------------------------|---|--|--|
| Antimony trioxide | OSHA PEL (1993-06-30) Calculated as Sb | | |
| | PEL: Permissible Exposure Level 0.5 mg/m3 | | |
| | NIOSH REL (1994-06-01) Calculated as Sb | | |
| | Time Weighted Average (TWA) 0.5 mg/m3 | | |
| | OSHA PEL 1989 (1989-03-01) Calculated as Sb | | |
| | PEL: Permissible Exposure Level 0.5 mg/m3 | | |
| | ACGIH TLV (1994-09-01) | | |
| | | | |
| | | | |
| Dibasic lead phthalate, C8H4O6Pb3 | OSHA PEL 1989 (1989-03-01) Calculated as Pb | | |
| | PEL: Permissible Exposure Level 0.075 mg/m3 | | |
| | ACGIH TLV (1995-05-23) Calculated as Pb | | |
| | TLV-TWA: Threshold Limit Value - Time weighted average PEL: | | |
| | Permissible Exposure Level 0.05 mg/m3 | | |
| 7.11 | 00774 7777 (4002.06.20) G.J. J. J. J. | | |
| Molybdate orange (Lead chromate | OSHA PEL (1993-06-30) Calculated as Mo | | |
| pigment) | PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust | | |
| | OSHA PEL (2006-11-27) Calculated as Cr | | |
| | PEL: Permissible Exposure Level 0.005 mg/m3 | | |
| 5/16 | | | |



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OSHA PEL Z2 (2006-11-27)

Ceiling 0.001 mg/m3

NIOSH REL (2010-09-01) Calculated as Cr

Time Weighted Average (TWA) 0.0002 mg/m3

Time Weighted Average (TWA) 0.5 mg/m3

OSHA PEL 1989 (1989-03-01) Calculated as CrO3

Ceiling 0.1 mg/m3

OSHA PEL 1989 (1989-03-01) Calculated as Pb

PEL: Permissible Exposure Level 0.075 mg/m3

OSHA PEL 1989 (1989-03-01) Calculated as Mo

PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust

OSHA PEL 1989 (1989-03-01) Calculated as Cr

PEL: Permissible Exposure Level 0.5 mg/m3

ACGIH TLV (1995-05-23) Calculated as Pb

TLV-TWA: Threshold Limit Value - Time weighted average PEL:

Permissible Exposure Level 0.05 mg/m3

ACGIH TLV (2001-02-22) Calculated as Mo

TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3 Form: Inhalable fraction

TLV-TWA: Threshold Limit Value - Time weighted average PEL: **Permissible Exposure Level** 3 mg/m3 Form: Respirable fraction

Appropriate engineering controls

Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

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 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.



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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.

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 [liquid]

Color : RED

Not available. Odor Not available. **Odor threshold** pН Not available. **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. Not available. **Burning rate Evaporation rate** Not available. Flammability (solid, gas) Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.SolubilityNot available.Solubility in waterNot available.Partition coefficient: n-Not available.

octanol/water

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



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SADT : Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : Keep away from extreme heat and oxidizing agents.

Incompatible materials : Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------|---------|--------------|----------|
| Antimony trioxide | | | | |
| | LD50 Oral | Rat | 34,000 mg/kg | - |
| Dibasic lead phthalate, C8H4O6Pb3 | | | | |
| Molybdate orange (Lead chromate pigment) | | | | |

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|-------------|---------|-------|----------|-------------|
| Antimony trioxide | Eyes - Mild | Rabbit | | | - |
| | irritant | | | | |

Conclusion/Summary

Skin: Mixture.Not fully tested.Eyes: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.



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Sensitization

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

| Classification | | | | |
|-------------------------|------|------|-----|--|
| Product/ingredient | OSHA | IARC | NTP | |
| name | | | | |
| Antimony trioxide | | 2B | | |
| Dibasic lead phthalate, | | | | |
| C8H4O6Pb3 | | | | |
| Molybdate orange (Lead | + | 1 | | |
| chromate pigment) | | | | |

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of :

Not available.

exposure

Potential acute health effects



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Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

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

Conclusion/Summary : Mixture.Not fully tested.

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.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information



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Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|----------------------------------|-------------------------|----------|
| Antimony trioxide | | | |
| | Acute LC50 80,000 µg/l Fresh | Fish - Fathead minnow | 96 h |
| | water | | |
| | Acute LC50 530 mg/l Fresh water | Fish - Bluegill | 96 h |
| | Acute LC50 1,000,000 μg/l Marine | Fish - Mummichog | 96 h |
| | water | | |
| | Acute EC50 423,450 μg/l Fresh | Aquatic invertebrates. | 48 h |
| | water | Water flea | |
| | Acute EC50 730 µg/l Fresh water | Aquatic plants - Green | 72 h |
| | | algae | |
| | Acute EC50 4.15 mg/l Marine | Aquatic plants - Diatom | 72 h |
| | water | | |
| | Acute EC50 4.15 mg/l Marine | Aquatic plants - Diatom | 96 h |
| | water | | |
| | Acute EC50 760 µg/l Fresh water | Aquatic plants - Green | 96 h |
| | | algae | |
| | Acute EC50 740 µg/l Fresh water | Aquatic plants - Green | 96 h |
| | | algae | |

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

| Diouecumulau, e potentiai | | | | |
|---------------------------|--------|----------|-----------|--|
| Product/ingredient name | LogPow | BCF | Potential | |
| Molybdate orange (Lead | | 3,600.00 | high | |
| chromate pigment) | | | | |

Mobility in soil

Soil/water partition coefficient

: Not available.

(KOC)

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



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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. 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 Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA : Consult mode specific transport rules

IMO/IMDG (maritime) : Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export notification: The following components are listed: Molybdate orange (Lead chromate pigment)

United States - TSCA 4(a) - Final Test Rules: Listed Diisodecyl phthalate

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules:

Listed Molybdate orange (Lead chromate pigment)

United States - TSCA 5(a)2 - Proposed significant new use rules: Listed Molybdate orange (Lead chromate pigment)



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United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Listed

Molybdate orange (Lead chromate pigment)

United States - TSCA 6 - Proposed risk management: Listed Lead

United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Dibasic lead phthalate, C8H4O6Pb3

United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Antimony trioxide

Dibasic lead phthalate, C8H4O6Pb3

Diisodecyl phthalate

Molybdate orange (Lead chromate pigment)

Lead Arsenic

Vinyl chloride monomer

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical:

Not listed

Not listed

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

Substances

DEA List I Chemicals (Precursor

Chemicals)

DEA List II Chemicals (Essential

Listed

Not listed

Not listed



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Chemicals)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

| Name | 0/0 | Classification |
|--|---------|----------------|
| Antimony trioxide | 1 - 5 | АН, СН |
| Dibasic lead phthalate, C8H4O6Pb3 | 1 - 5 | СН |
| Molybdate orange (Lead chromate pigment) | 0.1 - 1 | СН |

SARA 313

| | Product name | CAS number | % |
|-----------------------|--|------------|---------|
| Form R - Reporting | Antimony trioxide | 1309-64-4 | 1 - 5 |
| requirements | | | |
| | Dibasic lead phthalate, C8H4O6Pb3 | 17976-43-1 | 1 - 5 |
| | Molybdate orange (Lead chromate pigment) | 12656-85-8 | 0.1 - 1 |
| Supplier notification | Antimony trioxide | 1309-64-4 | 1 - 5 |
| | Dibasic lead phthalate, C8H4O6Pb3 | 17976-43-1 | 1 - 5 |
| | Molybdate orange (Lead chromate pigment) | 12656-85-8 | 0.1 - 1 |

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:

Calcium carbonate Antimony trioxide

New York : The following components are listed:

Antimony trioxide

New Jersey : The following components are listed:



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Ethene, chloro-, homopolymer

Calcium carbonate Antimony trioxide

Dibasic lead phthalate, C8H4O6Pb3

Molybdate orange (Lead chromate pigment)

Pennsylvania : The following components are listed:

Calcium carbonate

Antimony trioxide

Dibasic lead phthalate, C8H4O6Pb3

Molybdate orange (Lead chromate pigment)

California Prop. 65

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

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

Canada inventory : All components are listed or exempted.

International regulations

International lists : Australia inventory (AICS): Not determined.

Taiwan inventory (CSNN): Not determined.

Malaysia Inventory (EHS Register): Not determined.

EINECS: All components are listed or exempted.

Japan inventory: Not determined.

China inventory (IECSC): Not determined.

Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention

List Schedule I Chemicals

Not listed

Chemical Weapons Convention

List Schedule II Chemicals

Not listed

Chemical Weapons Convention

: Not listed

List Schedule III Chemicals

Section 16. Other information

History

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Date of issue/Date of revision: 03/03/2015Date of previous issue: 03/11/2014Version: 1.11

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

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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.