1. IDENTIFICATION

Product name: Dissolvine 220-S
Product Use Description: Specific use(s): Chelating agent
Company: Nouryon
            Functional Chemicals B.V.
            Velperweg 76
            Arnhem 6824 BM
            NL
Telephone: +31263664433
Fax: +31263665830
E-mail address: sds_chelates@nouryon.com
Emergency telephone: 24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424-9300, CHEMTREC outside USA +1-703-527-3887, CANUTEC-CANADA:1-613-996-6666, 国家化学事故应急响应中心 +86 532 8388 9090

2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>Risk of dust explosion.</td>
</tr>
</tbody>
</table>

GHS Classification

Combustible dust
Acute toxicity, Category 4, Inhalation
Eye irritation, Category 2A
Specific target organ systemic toxicity - repeated exposure, Category 2, Inhalation, Respiratory Tract

GHS label elements

Hazard pictograms:

Signal Word: Warning
Hazard Statements: If small particles are generated during further processing, handling or by other means, may form combustible dust
concentrations in air.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (Respiratory Tract)
through prolonged or repeated exposure if inhaled.

Precautionary Statements:

**Prevention:**
P260 Do not breathe dust or fume.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.

**Response:**
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Disposal:**
P501 Dispose of contents/container in accordance with local regulation.

Carcinogenicity:

**IARC:**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:**
No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP:**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration [% W/W]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid, tetrasodium salt</td>
<td>64-02-8</td>
<td>Acute Tox. 4; H302</td>
<td>&gt;= 70 - &lt; 90</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute Tox. 4; H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2A; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

**General advice**
- Immediate medical attention is required.
- Move out of dangerous area.
- Show this material safety data sheet to the doctor in attendance.

**Inhalation**
- Remove to fresh air.
- Keep patient warm and at rest.
- Rinse nose and mouth with water.

**Skin contact**
- Take off contaminated clothing and shoes immediately.

**Eye contact**
- Rinse with plenty of water.
- Get medical attention immediately. Continue to rinse during transport of patient.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.

**Ingestion**
- Clean mouth with water and drink afterwards plenty of water.
- Never give anything by mouth to an unconscious person.
- Obtain medical attention.

**Notes to physician**

**Symptoms**
- The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

**Risks**
- Causes serious eye irritation.
- Harmful if inhaled.
- May cause damage to organs through prolonged or repeated exposure if inhaled.

**Treatment**
- Treat symptomatically.
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting / Specific hazards arising from the chemical: Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Combustion products: Nitrogen oxides (NOx)

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures


Emergency measures on accidental release: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone.

Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up / Methods for containment: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal considerations see section 13. For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling: For personal protection see section 8. Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing.
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

Storage
Requirements for storage areas and containers: Prevent unauthorized access. Keep in a dry place. Store at room temperature in the original container. Keep container tightly closed.

Other data: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>TWA</td>
<td>50 Million particles per cubic foot</td>
<td>2011-07-01</td>
<td>OSHA Z-3</td>
<td>total dust</td>
<td></td>
</tr>
</tbody>
</table>

Further information:
- a: Based on impinger samples counted by light-field techniques.
- d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

mppcf X 35.3 = million particles per cubic meter = particles per c.c

Dust TWA 15 mg/m³ 2011-07-01 OSHA Z-3 total dust

Further information:
- d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

Dust TWA 5 mg/m³ 2011-07-01 OSHA Z-3 respirable fraction

Further information:
- d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

Dust TWA 15 Million particles per cubic foot 2011-07-01 OSHA Z-3 respirable fraction

Further information:
- a: Based on impinger samples counted by light-field techniques.
- d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

mppcf X 35.3 = million particles per cubic meter = particles per c.c
Appropriate engineering controls
Provide appropriate exhaust ventilation at places where dust is formed. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment
Eye/face protection : Tightly fitting safety goggles
Skin and body protection : Protective suit
Respiratory protection : Half mask with a particle filter P2 (EN 143)
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Environmental exposure controls
General advice : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance
Form : powder
Color : white
Odor : odorless
Odor Threshold : Not applicable

Safety data
pH : 10.5 - 11.5 % (water)
Melting point : Decomposes before melting.
Boiling point/boiling range : Not applicable
Flash point : Not applicable
Ignition temperature : >= 200 °C
Method: Auto-ignition of a 5mm dust layer according to EN 50281-2-1
Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard
May form combustible dust concentrations in air during processing, handling or other means.

Flammability (liquids) : Not applicable

Lower explosion limit : >= 40 g/m3

Upper explosion limit : Not applicable

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

Bulk density : ca. 850 kg/m3

Water solubility : ca. 1,000 g/l

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: < 0

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid : None known.

Materials to avoid : None known.

Hazardous decomposition products : Carbon oxides
                                        nitrogen oxides (NOx)

Thermal decomposition : No data available

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : Dust may form explosive mixture in air.
11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

<table>
<thead>
<tr>
<th>Hazard Summary</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified based on available information.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Respiratory sensitization: Not classified based on available information.</td>
</tr>
<tr>
<td></td>
<td>Skin sensitization: Not classified based on available information.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified based on available information.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified based on available information.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified based on available information.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified based on available information.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified based on available information.</td>
</tr>
</tbody>
</table>

Potential Health Effects

| Inhalation                                          | Thermal decomposition can lead to release of irritating gases and vapors.                   |
|                                                    | Product dust may be irritating to respiratory system.                                       |
|                                                    | Harmful if inhaled.                                                                         |
| Skin                                               | Product dust may be irritating to skin.                                                     |
|                                                    | May cause skin irritation.                                                                   |
| Eyes                                               | Causes serious eye damage.                                                                  |
| Ingestion                                          | May be harmful if swallowed.                                                                 |
| Aggravated Medical Condition                       | None known.                                                                                 |
| Symptoms of Overexposure                           | The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known. |

Toxicology Assessment

| Further information                                | No further data available.                                                                  |

Test result

| Acute oral toxicity                                | Acute toxicity estimate: 2,119 mg/kg                                                       |
Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: 1.79 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Target Organ Systemic Toxicant - Repeated exposure:
Routes of exposure: Inhalation
Target Organs: Respiratory Tract
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Carcinogenicity:
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

TESTILOGY DATA FOR THE INGREDIENTS:

Test result

Component: Ethylenediaminetetraacetic acid, tetrasodium salt

Acute oral toxicity: LD50: 1,780 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat): > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 412
Read-across (Analogy)

Skin irritation: Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
Read-across (Analogy)

Eye irritation: Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405

Sensitization: Maximization Test
Species: Guinea pig
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Read-across (Analogy)

Germ cell mutagenicity: Result: negative
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Genotoxicity in vivo:
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
Read-across (Analogy)

Carcinogenicity:
Species: Rat
Application Route: Ingestion
Result: Not classified due to data which are conclusive although insufficient for classification.
Read-across (Analogy)

Reproductive toxicity:
Species: Rat
NOAEL:
F1: > 250 mg/kg.
Read-across (Analogy), Information taken from reference works and the literature.

Target Organ Systemic Toxicant - Single exposure:
Based on available data, the classification criteria are not met.

Target Organ Systemic Toxicant - Repeated exposure:
Routes of exposure: Inhalation
Target Organs: Respiratory Tract
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity:
Not classified due to data which are conclusive although insufficient for classification.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:
Ecotoxicology Assessment
Additional ecological information: None known.

Test result
Elimination information (persistence and degradability)
Bioaccumulation: Not expected considering the low log Pow value.
Mobility: Adsorption to the solid soil particles is not expected.
Biodegradability: Not readily biodegradable, but will degrade after a longer period.

Further information on ecology
Biochemical Oxygen Demand (BOD): No data available

Hazardous to the ozone layer
Dissolvine 220-S

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Test result

Component: Ethylenediaminetetraacetic acid, tetrasodium salt

Ecotoxicity effects
Toxicity to fish: LC50: > 100 mg/l
Exposure time: 96 h
Species: Fish

Toxicity to daphnia and other aquatic invertebrates: EC50: 140 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: DIN 38412
Read-across (Analogy)

Toxicity to algae: EC50: > 100 mg/l
Exposure time: 72 h
Species: algae

Toxicity to fish (Chronic toxicity): NOEC: > 25.7 mg/l
Exposure time: 35 d
Species: Danio rerio (zebra fish)
Test Type: flow-through test
Method: OECD Test Guideline 210
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: > 25 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Read-across (Analogy)

Elimination information (persistence and degradability)
Bioaccumulation: Not expected considering the low log Pow value.
Mobility: Adsorption to the solid soil particles is not expected.
Biodegradability: Not readily biodegradable, but will degrade after a longer period.

Further information on ecology
Biochemical Oxygen Demand (BOD): No data available
13. DISPOSAL CONSIDERATIONS

Product: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste Dispose of contents/container in accordance with local regulation.

Contaminated packaging: Empty remaining contents. Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

ADR
Not regulated as a dangerous good

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Further information for transport
Not classified as dangerous in the meaning of transport regulations.

Domestic regulation

49 CFR
Not regulated as a dangerous good

TDG
Not regulated as a dangerous good

NOM-002-SCT
Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

DSL: YES. All components of this product are on the Canadian DSL

AICS: YES. On the inventory, or in compliance with the inventory

ENCS: YES. On the inventory, or in compliance with the inventory

ISHL: YES. On the inventory, or in compliance with the inventory

KECI: YES. On the inventory, or in compliance with the inventory

PICCS: YES. On the inventory, or in compliance with the inventory

IECSC: YES. On the inventory, or in compliance with the inventory

TCSI: YES. On the inventory, or in compliance with the inventory

TSCA: YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
For explanation of abbreviations, see section 16.

**TSCA list**

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.

TSCA 12(b) : No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

- Acute toxicity (any route of exposure)
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)

**SARA 302**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

**US State Regulations**

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

- Ethylenediaminetetraacetic acid, tetrasodium salt 64-02-8
- Water 7732-18-5
California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.

Full text of other abbreviations
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3
Mineral Dusts

OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; ICS0 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification : Health Hazard: 2
Chronic Health Hazard: *
Flammability: 2
Physical hazards: 0

NFPA Classification:
- Health Hazard: 2
- Fire Hazard: 1
- Reactivity Hazard: 0

Notification status explanation

REACH 1907/2006 (EU)
DSL Canadian Domestic Substances List (DSL)
AICS Australia Inventory of Chemical Substances (AICS)
ENCS Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL Japan. ISHL - Inventory of Chemical Substances
KECI Korea. Korean Existing Chemicals Inventory (KECI)
PICCS Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC China. Inventory of Existing Chemical Substances in China (IECSC)
TCSI Taiwan Chemical Substance Inventory (TCSI)
TSCA United States TSCA Inventory

Further information

Revision Date 11/14/2018

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product’s merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.