

SAFETY DATA SHEET

METO

Last changed: 15/01/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME METO
APPLICATION AREA Detergent

Vendor art. number
1303

NATIONAL MANUFACTURER/IMPORTER

Enterprise Trion Tensid AB
Address Svederusgatan 1-3
Postal code SE-754 50 Uppsala
Country Sweden
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Telephone +46 18 156190
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CONTACT PERSONS

| Name | E-mail | Telephone | Country |
|--------------------|-----------------------------|-----------|---------|
| William Stomilovic | william.stomilovic@trion.se | | |

| Emergency Phone | Type of assistance | Opening Hours |
|------------------|--------------------|---------------|
| +46 70 60 462 94 | William Stomilovic | |

2. HAZARDS IDENTIFICATION

HEALTH

R36/38 Irritating to eyes and skin.

FIRE AND EXPLOSION

The product is not flammable.

ENVIRONMENT

Biodegradable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient name | Reg.No | EC No. | CAS No. | Conc. (wt%) | Classification |
|----------------------------|--------|-----------|------------|-------------|----------------|
| phosphoric acid ... % | | 231-633-2 | 7664-38-2 | 1 - 5 % | C,R34 |
| Dodecylbensensulfonic acid | | 248-289-4 | 27176-87-0 | 5 - 10 % | C,N,R22 - R34 |

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

GENERAL

Immediately rinse the skin and eyes with an abundant supply of water.

INHALATION

Fresh air and rest.

SKIN CONTACT

Rinse with water. Contact physician if discomfort continues.

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EYE CONTACT

Rinse immediately with plenty of water. Keep the eyes wide open. Get medical attention promptly if symptoms occur after washing.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguishing agent: carbon dioxide or powder.

IMPROPER EXTINGUISHING MEDIA

Do not use a direct water jet.

EXTINGUISHING METHODS

Water should only be used by fireman.

FIRE AND EXPLOSION HAZARDS

Non-flammable.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Firemen must wear closed-circuit breathing equipment and full protective suits.

OTHER INFORMATION

Containers close to fire should be removed or cooled with water.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid direct contact. Wear necessary protective equipment.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Prevent dispersion through damming with sand, earth or other suitable material. Prevents major discharge into sewage systems, groundwater and surface water.

METHODS FOR CLEANING UP

Cover or absorb spilt liquid using sand, earth or other suitable material. Flush with plenty of water to clean spillage area.

OTHER INFORMATION

Only major emissions may represent a risk.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid contact with oxidising substances and strong bases.

HANDLING ADVICE

Wear appropriate clothing to prevent reasonably probable skin contact. Plastic packing material.

STORAGE

Plastic packing material. Keep container tightly closed. Keep locked up and out of the reach of children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL

Workplace and work methods are designed to prevent direct contact. Use suitable protective gloves, protective goggles and protective clothes if there is risk of direct contact or splashing.

RESPIRATORY PROTECTION

Respirator only if aerosol or mist may be formed. Respirator with B filter (grey).

EYE PROTECTION

Use tight-fitting protective goggles.

HAND PROTECTION

Use protective gloves that are resistant to chemicals. Protective gloves (butyl rubber, natural rubber, nitrile rubber).

PROTECTIVE CLOTHING

Wear suitable protective clothing and eye/face protection.

OTHER INFORMATION

Promptly remove non-impervious clothing that becomes wet or contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|----------------------|
| PHYSICAL STATE | Liquid. |
| COLOUR | Tan. |
| ODOUR | Marked. |
| SOLUBILITY | Miscible with water. |
| WATER SOLUBILITY | 100% |

Physical and chemical parameters

| Parameter | Value/unit | Method/reference | Observation |
|----------------|---------------------------|------------------|-------------|
| pH concentrate | ~ 1.00 | | |
| pH in solution | ~ 2.00 | | |
| Density | 1050.00 kg/m ³ | | |

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

Reacts violently with alkali.

MATERIALS TO AVOID

The product reacts with calcareous materials and dissolves them. Reacts violently with alkali.

11. TOXICOLOGICAL INFORMATION

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ACUTE TOXIC TEST RESULTS

| phosphoric acid ... % | | | | |
|-----------------------|---------------|---------------|---------|--------|
| Route of exposure | Exposure time | Value/unit | Species | Source |
| LD50(Oral) | | 1530.00 mg/kg | rat | |

| Dodecylbenzensulfonic acid | | | | |
|----------------------------|---------------|--------------|---------|--------|
| Route of exposure | Exposure time | Value/unit | Species | Source |
| LD50(Oral) | | 650.00 mg/kg | rat | |

INHALATION

Inhalation of mist may cause smarting in the nose and throat, coughing and, at high concentrations, breathing difficulties.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Severe eye irritation.

INGESTION

Ingestion may cause smarting in the mouth and throat, nausea and vomiting.

12. ECOLOGICAL INFORMATION

AQUATIC ECOTOXICITY

| phosphoric acid ... % | | | | |
|-----------------------|---------------|-------------|------------------|--------|
| Test | Exposure time | Value/unit | Species | Source |
| LC50(Acute fish) | 96h | 138.00 mg/l | Gambusia affinis | |

| Dodecylbenzensulfonic acid | | | | |
|----------------------------|---------------|------------|---------------|--------|
| Test | Exposure time | Value/unit | Species | Source |
| LC50(Acute fish) | 96h | 6.90 mg/l | Rita rita | |
| EC50(Acute Daphnia) | 48h | 5.90 mg/l | Daphnia magna | |

Point source pollution of large quantities to the aquatic environment may harm aquatic organisms.

ECOTOXICITY

Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

DEGRADABILITY

Biodegradable.

ACCUMULATION

Not bioaccumulating in water environments

OTHER EFFECTS

May change the pH of the water. Large quantities may be harmful to plants.

OTHER INFORMATION

Prevent discharges into the sewage system, watercourses or lakes.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Local and EU regulations for refuse treatment must be followed. Do not use metal containers. Containers with rests of content is hazardous waste. Packaging may be cleaned and recycled.

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CATEGORY OF WASTE

Suitable classification of waste is the responsibility of the user.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: No

15. REGULATORY INFORMATION



Irritating

EC-Label: No

COMPOSITION

phosphoric acid ... % (1 - 5 %), Dodecylbenzensulfonic acid (5 - 10 %)

R-PHRASES

R36/38 Irritating to eyes and skin.

S-PHRASES

S2 Keep out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

VENDOR NOTES

Assessed on the basis of available data.

LIST OF RELEVANT R-PHRASES

R22 Harmful if swallowed.

R34 Causes burns.

REVISION HISTORY

| Version | Rev. date | Responsible | Changes |
|---------|------------|-------------|--------------|
| 1.0.1 | 15/01/2010 | WS | New database |