



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 33111

CERAN FG

Date of the previous version: 2018-10-03

Revision Date: 2020-08-28

Version 6.01

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

| | |
|--------------------------|-----------------|
| Product name | CERAN FG |
| Number | JFS |
| Substance/mixture | Mixture |

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

| | |
|------------------------|-------------------------------------|
| Identified uses | Grease for incidental food contact. |
|------------------------|-------------------------------------|

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------|--|
| Supplier | TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 |
|-----------------|--|

For further information, please contact:

| | |
|-----------------------|------------------------|
| Contact Point | HSE |
| E-mail Address | rm.msds-lubs@total.com |

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59
 In France - Poison centers:
 ANGERS : 02 41 48 21 21
 BORDEAUX : 05 56 96 40 80
 LILLE : 08 00 59 59 59
 LYON : 04 72 11 69 11
 MARSEILLE : 04 91 75 25 25
 NANCY : 03 83 22 50 50
 PARIS : 01 40 05 48 48
 STRASBOURG : 03 88 37 37 37
 TOULOUSE : 05 61 77 74 47

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

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For the full text of the H-Statements mentioned in this Section, see Section 2.2.

Classification

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

Signal word

None

Hazard Statements

None

Precautionary Statements

None

Supplemental Hazard Statements

EUH210 - Safety data sheet available on request

EUH208 - Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salt, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction

2.3. Other hazards

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

Environmental properties

Should not be released into the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical nature

Mineral oil of petroleum origin.

Hazardous ingredients

| Chemical Name | EC-No | REACH registration No | CAS-No | Weight % | Classification (Reg. 1272/2008) |
|--|-----------|-----------------------|------------|----------|---|
| Sulfonic acids, petroleum, calcium salt | 263-093-9 | 01-2119488992-18 | 61789-86-4 | 5-<10 | Skin Sens. 1 (H317) |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts | 274-263-7 | 01-2119492616-28 | 70024-69-0 | 5-<10 | Skin Sens. 1B (H317) |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | 271-529-4 | 01-2119492627-25 | 68584-23-6 | 5-<10 | Skin Sens. 1B (H317) |
| calcium dodecylbenzenesulphonate | 247-557-8 | no data available | 26264-06-2 | 1-<3 | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) |
| Benzenamine, N-phenyl-, reaction products with | 270-128-1 | 01-2119491299-23 | 68411-46-1 | 1-<2.5 | Aquatic Chronic 3 (H412) |

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| | | | | | |
|------------------------|--|--|--|--|--|
| 2,4,4-trimethylpentene | | | | | |
|------------------------|--|--|--|--|--|

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

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

Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

| | |
|-----------------------------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is not required. If symptoms persist, call a physician. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if exposed or you feel unwell. |
| Protection of First-aiders | Use personal protective equipment. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|---------------------|--|
| Eye contact | Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required. |
| Skin contact | Based on available data, the classification criteria are not met. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. |
| Inhalation | Based on available data, the classification criteria are not met. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Based on available data, the classification criteria are not met. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. May cause sensitization of susceptible persons.

Section 5: FIRE-FIGHTING MEASURES

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5.1. Extinguishing media**Suitable Extinguishing Media** Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S, Mercaptans, Nitrogen oxides (NO_x).

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

| |
|--|
| Section 6: ACCIDENTAL RELEASE MEASURES |
|--|

6.1. Personal precautions, protective equipment and emergency procedures

General Information Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.

6.2. Environmental precautions

General Information Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for containment If necessary dike the product with dry earth, sand or similar non-combustible materials.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Powdered material may form explosive dust-air mixtures. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

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Waste treatment See section 13.**Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling

| | |
|---|---|
| Advice on safe handling | Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. |
| Prevention of fire and explosion | Take precautionary measures against static discharges. |
| Hygiene measures | When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--|--|
| Technical measures/Storage conditions | Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture. Store in original container. |
| Materials to Avoid | Strong oxidizing agents. Acids. Bases. |

7.3. Specific end uses

| | |
|------------------------|---|
| Specific use(s) | Please refer to Technical Data Sheet for further information. |
|------------------------|---|

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION8.1. Control parameters

| | |
|------------------------|---|
| Exposure limits | Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m ³ , NIOSH (REL) TWA 5 mg/m ³ , STEL 10 mg/m ³ , ACGIH (TLV) TWA 5 mg/m ³ (highly refined) |
| Legend | See section 16 |

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Derived No Effect Level (DNEL)

DNEL Worker (Industrial/Professional)

| Chemical Name | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects |
|---|------------------------------|---------------------------|--|--------------------------|
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 | | | 0.66 mg/m ³ Inhalation 3.33 mg/kg bw/day Dermal | |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 | | | 3.33 mg/kg bw/day (dermal) 0.66 mg/m ³ (inhalation) | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 | | | 0.60 mg/m ³ (Inhalation) 0.080 mg/kg bw/day (Dermal) | |

DNEL Consumer

| Chemical Name | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects |
|---|------------------------------|---------------------------|--|--------------------------|
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 | | | 0.33 mg/m ³ Inhalation 1.667 mg/kg bw/day Dermal 0.8333 mg/kg bw/day Oral | |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 | | | 1.667 mg/kg bw/day (dermal) 0.33 mg/m ³ (inhalation) 0.8333 mg/kg bw/day (oral) | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 | | | 0.14 mg/m ³ (Inhalation) 0.040 mg/kg bw/day (Dermal) 0.040 mg/kg bw/day (Oral) | |

Predicted No Effect Concentration (PNEC)

| Chemical Name | Water | Sediment | Soil | Air | STP | Oral |
|--|--------------------------------------|--|-------------------------|-----|-----------|-------------------|
| Sulfonic acids, petroleum, calcium salt 61789-86-4 | 1 mg/l fw 1 mg/l mw 10 mg/l or | 226000000 mg/kg sediment dw fw 226000000 mg/kg sediment dw mw | 271000000 mg/kg soil dw | | 1000 mg/l | 16.667 mg/kg food |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 | 1 mg/l fw 1 mg/l mw 10 mg/l or | 723500000 mg/kg dw fw 723500000 mg/kg dw mw | 868700000 mg/kg dw | | 100 mg/l | 16.667 mg/kg food |

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| | | | | | | |
|---|---------------------------------------|--|--------------------|--|----------|-------------------|
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 | 1 mg/l fw 1 mg/l mw 10 mg/l or | 723500000 mg/kg dw fw 723500000 mg/kg dw mw | 868700000 mg/kg dw | | 100 mg/l | 16.667 mg/kg food |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 | 0.0338 mg/l (fw) 0.00338 mg/l (mw) | 0.446 mg/kg (fw) 0.0446 mg/kg (mw) | 1.76 mg/kg soil dw | | 1 mg/l | |

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied.

Respiratory protection

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Eye Protection

Safety glasses with side-shields. EN 166. If splashes are likely to occur, wear:.

Skin and body protection

Long sleeved clothing. Impermeable gloves. Wear suitable protective clothing. Protective shoes or boots. Do not wear rings, watches or anything similar which can retain the product and may give rise to skin conditions. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing.

Hand Protection

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.



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Environmental exposure controls

General Information Do not allow material to contaminate ground water system.

| |
|---|
| Section 9: PHYSICAL AND CHEMICAL PROPERTIES |
|---|

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------|--------------------------|
| Color | tan |
| Physical State @20°C | solid |
| Odor | Characteristic |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|---|------------------------------|--------------------------|---------------|
| pH | | Not applicable | |
| Melting point/range | | No information available | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | | Not applicable | |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | | |
| upper | | No information available | |
| Lower | | No information available | |
| Vapor Pressure | < 0.0008 hPa | @ 20 °C | |
| Vapor density | | No information available | |
| Relative density | 0.950 - 1.050 | @ 25 °C | |
| Density | 950 - 1050 kg/m³ | @ 25 °C | |
| Water solubility | | partly soluble | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Viscosity, kinematic | | Not applicable | |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | None under normal processing | | |

9.2. Other information

| | |
|-----------------------|--------------------------|
| Freezing Point | No information available |
|-----------------------|--------------------------|

| |
|--------------------------------------|
| Section 10: STABILITY AND REACTIVITY |
|--------------------------------------|

10.1. Reactivity

General Information None under normal processing.

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10.2. Chemical stability**Stability** Stable under recommended storage conditions.10.3. Possibility of hazardous reactions**Hazardous Reactions** No dangerous reaction known under conditions of normal use. None under normal processing.10.4. Conditions to avoid**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks. Take precautionary measures against static discharges.10.5. Incompatible materials**Materials to Avoid** Strong oxidizing agents.10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S, Mercaptans, Nitrogen oxides (NO_x).

| |
|---------------------------------------|
| Section 11: TOXICOLOGICAL INFORMATION |
|---------------------------------------|

11.1. Information on toxicological effects**Acute toxicity Local effects Product Information****Skin contact** . Based on available data, the classification criteria are not met. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.**Eye contact** . Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required.**Inhalation** . Based on available data, the classification criteria are not met. Inhalation of vapors in high concentration may cause irritation of respiratory system.**Ingestion** . Based on available data, the classification criteria are not met. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**ATEmix (inhalation-dust/mist)** 6.00 mg/l**Acute toxicity - Component Information**

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| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---------------------------------------|---|-------------------------------------|
| Sulfonic acids, petroleum, calcium salt | > 16000 mg/kg bw (rat) | > 4000 mg/kg (rabbit) | LC50(4h) > 1.9 mg/l (rat - aerosol) |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts | LD50 > 5000 mg/kg (Rat - OECD 401) | LD50 > 5000 mg/kg (Rabbit - OECD 402) | |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts | > 5000 mg/kg (Rat - OECD 401) | > 5000 mg/kg bw (rabbit - OECD 402) | |
| calcium dodecylbenzenesulphonate | = 4 g/kg (Rat) | LD50 4199 mg/kg (Rabbit) | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | LD50 > 5000 mg/kg Oral (Rat-OECD 401) | LD50 > 2000 mg/kg Dermal (Rat-OECD 402) | |

Sensitization

Sensitization

Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required. Contains sensitizer(s). May produce an allergic reaction.

Specific effects

Carcinogenicity

Based on available data, the classification criteria are not met.

Mutagenicity

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Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Repeated dose toxicity

Target Organ Effects (STOT)

Specific target organ systemic toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ systemic toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Other information

Other adverse effects

Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data, the classification criteria are not met.

Acute aquatic toxicity - Product Information

No information available.

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Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|---|---|---|---|----------------------------|
| Sulfonic acids, petroleum, calcium salt 61789-86-4 | EC50(72h) > 1000 mg/l (Pseudokirchnerella subcapitata) | EC50(48h) > 1000 mg/l (Daphnia magna - OECD 202) | LC50(96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203) | |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0 | EC50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - static) | EC50 (48h) > 1000 mg/l (Daphnia magna - static) | LL50 (96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203) | |
| Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6 | EL50(72h) > 1000 mg/l (Pseudokirchnerella subcapitata) | EL50(48h) > 1000 mg/l (Daphnia magna) | LL50(96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203) | |
| calcium dodecylbenzenesulphonate 26264-06-2 | | EC50 (48h) 2.5 mg/l Daphnia magna (OECD 202) | LC50 (96h) = 22 mg/l Pimephales promelas (OECD 203) | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1 | EC50 >100 mg/l Desmodesmus subspicatus (OECD 201) | EC50 51 mg/l Daphnia magna (OECD 202) | LC50 >100 mg/l Danio rerio (OECD 203) | |

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available

12.3. Bioaccumulative potential

Product Information

No information available.

logPow

No information available

Component Information

No information available.

| Chemical Name | log Pow |
|--|--------------------------------------|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1 | 5.2 - 10.82 @ 23 - 25 °C and pH 6.67 |

12.4. Mobility in soil

Soil

Given its physical and chemical characteristics, the product has no soil mobility.

Air

Loss by evaporation is limited.



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Water partly soluble.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This product contains no substance considered as PBT and/or vPvB according to REACH regulation annex XIII criteria.

12.6. Other adverse effects

General Information No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products Should not be released into the environment. Do not empty into drains. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EWC Waste Disposal No. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions:.. 12 01 12.

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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European Union

REACH

All substances contained in this mixture have been pre-registered, registered or are exempt from registration in accordance with Regulation (CE) No. 1907/2006 (REACH)

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
 Philippines (PICCS)
 China (IECSC)
 Australia (AICS)
 Korea (KECL)
 New Zealand (NZIoC)
 Japan (ENCS)
 Canada (DSL/NDL)
 U.S.A. (TSCA)

Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level



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OECD = Organization for Economic Co-operation and Development
 OSHA = Occupational Safety and Health Administration
 UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material
 ATE = Acute Toxicity Estimate
 QSAR = Quantitative Structure-Activity Relationship
 EL50 = median Effective Loading
 NOELR = No Observed Effect Loading Rate
 PAH = Polycyclic aromatic hydrocarbons
 LOEC = Lowest Observed Effect Concentration
 PVA = Polyvinyl alcohol
 PVC = Polyvinyl chloride
 ECOSAR = Ecological Structure Activity Relationships
 CNS = Central nervous system
 EPA = Environmental Protection Agency
 ErL50 = effective loading on growth rate in algae test, to cause a 50% response
 EbL50 = effective loading on growth with the control in algae test, to cause a 50% response
 DNEL = Derived No Effect Level
 PNEC = Predicted No Effect Concentration
 dw = dry weight
 fw = fresh water
 mw = marine water
 or = occasional release

Legend Section 8

OEL = Occupational Exposure Limit
 TWA: Time Weight Average
 STEL: Short Time Exposure Limit
 PEL: Permissible exposure limit
 REL: Recommended exposure limit
 TLV: Threshold Limit Values

| | | | |
|----|--------------------|----|-----------------------|
| + | Sensitizer | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

Revision Date: 2020-08-28
 Revision Note: *** Indicates updated section

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet