SAFETY DATA SHEET



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

FLUIDE DA (TOTAL)

SDS no. 36283

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : ►LUIDE DA (TOTAL)

Product code : 36283

Product description: Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses

ransmission fluids

General use of lubricants and greases in vehicles or machinery - Industrial General use of lubricants and greases in vehicles or machinery - Professional Formulation additives, lubricants and greases - Industrial

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

m.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 183 Eversholt St, Kings Cross

London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

m.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : **☑**dit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H332 Asp. Tox. 1, H304

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity

: 5.3 percent of the mixture consists of component(s) of unknown acute inhalation

toxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms





Signal word : Dange

Hazard statements : $\sqrt{304}$ - May be fatal if swallowed and enters airways.

H332 - Harmful if inhaled.

Precautionary statements

General

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

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

Prevention: P271 - Use only outdoors or in a well-ventilated area.

Response : P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 - Do NOT induce vomiting.

Storage : \(\overline{\pi}\)405 - Store locked up.

Disposal : \$\overline{\pi_5}01\$ - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Contains : Hydrogenated dimerization products of 1-decene and reaction products of 1-decene,

hydrogenated

Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene reaction mass of: branched icosane;branched docosane;branched tetracosane

Distillates (petroleum), hydrotreated middle

Supplemental label

elements

: Contains methyl methacrylate. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Not applicable.

articles

2.3 Other hazards

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SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do not result in classification

Fazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|--|-----------|--|---------|
| ydrogenated dimerization products of 1-decene and reaction products of 1-decene, hydrogenated | REACH #: 01-2119537268-33 EC: 931-652-2 | ≥25 - ≤50 | Acute Tox. 4, H332 Asp. Tox. 1, H304 | [1] |
| Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | REACH #: 01-2119411393-49 EC: 700-308-1 | ≥25 - ≤48 | Acute Tox. 4, H332 Asp. Tox. 1, H304 | [1] |
| reaction mass of: branched icosane; branched docosane; branched tetracosane | CAS: 151006-58-5 Index: 601-070-00-0 | ≥10 - ≤25 | Acute Tox. 4, H332 | [1] |
| Distillates (petroleum), hydrotreated middle | EC: 265-148-2 CAS: 64742-46-7 | ≤10 | Asp. Tox. 1, H304 | [1] |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | REACH #: 01-2119510877-33 EC: 620-540-6 CAS: 1218787-32-6 | <0.25 | Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] |
| methyl methacrylate | REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6 | ≤0.3 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 | [1] [2] |
| naphthalene | EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2 | <0.1 | Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | [1] [2] |
| | | | See Section 16 for the full text of the H statements declared above. | |

Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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SECTION 3: Composition/information on ingredients

Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of 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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: Adverse symptoms may include the following:

nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 4: First aid measures

: No specific treatment. **Specific treatments**

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

earbon monoxide carbon dioxide Silicon Dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

5.3 Advice for firefighters

Special protective actions for fire-fighters

Fromptly 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 self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: Fspecialised 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".

6.2 Environmental precautions

: Avoid dispersal of spilt 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).

6.3 Methods and material 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.

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SECTION 6: Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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.

7.2 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/substance | Exposure limit values |
|---------------------|--|
| methyl methacrylate | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. |
| naphthalene | EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. |

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Advisory OEL

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

DNELs/DMELs

| Product/substance | Type | Exposure | Value | Population | Effects |
|---|------|--------------------------|------------------------|-----------------------|----------|
| Fydrogenated dimerization products | DNEL | Short term | 60 mg/m³ | Workers | Systemic |
| of 1-decene and reaction products of 1-decene,hydrogenated | | Inhalation | | | |
| | DNEL | Short term Inhalation | 50 mg/m ³ | General population | Systemic |
| Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | DNEL | Short term Inhalation | 22.9 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 3.9 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 3.9 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 16.8 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 3.9 mg/m³ | General population | Local |
| reaction mass of: branched icosane; branched docosane; branched tetracosane | DNEL | Short term Inhalation | 50 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 60 mg/m³ | Workers | Systemic |
| Distillates (petroleum), hydrotreated middle | DNEL | Long term Dermal | 2.9 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 16 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 5000 mg/ m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 1.3 mg/kg bw/day | General population | Systemic |

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| SECTION 8: Exposure cont | rols/p | ersonal prote | ction | | |
|-------------------------------------|--------|-------------------|------------------------|------------|-----------|
| | DNEL | Long term | 4.8 mg/m ³ | General | Systemic |
| | | Inhalation | | population | -, |
| | DNEL | Short term | 3000 mg/ | General | Systemic |
| | | Inhalation | m³ | population | ., |
| | DNEL | Long term Oral | 1.25 mg/ | General | Systemic |
| | DIVLE | Long tonn oran | kg bw/day | population | Cyclonia |
| | DNEL | Long term Dermal | 1.25 mg/ | General | Systemic |
| | DINLL | Long term Dermai | kg bw/day | population | Oysternic |
| | DNEL | Long term Dermal | 2.91 mg/ | Workers | Systemic |
| | DINLL | Long term Dermai | kg bw/day | VVOIRGIS | Oysternic |
| | DNEL | Long term | 4.85 mg/m ³ | General | Systemic |
| | DINLL | Inhalation | 4.05 mg/m | population | Systemic |
| | DNEL | Long term | 16.4 mg/m³ | | Systemic |
| | DINEL | Inhalation | 10.4 mg/m | VVOIKEIS | Systernic |
| | DNIEL | | 2001 6 mg/ | Canaral | Cyctomic |
| | DNEL | Short term | 3001.6 mg/ | General | Systemic |
| | DAIEL | Inhalation | m³ | population | 0 |
| | DNEL | Short term | 5002.67 | Workers | Systemic |
| 0.01/046.40/ | DAIEL | Inhalation | mg/m³ | 0 | 0 |
| 2,2'-(C16-18 (evennumbered, C18 | DNEL | Long term Oral | 0.214 mg/ | General | Systemic |
| unsaturated) alkyl imino) diethanol | האורי | Lamanta D | kg bw/day | population | 0 |
| | DNEL | Long term Dermal | 0.214 mg/ | General | Systemic |
| | 5 | | kg bw/day | population | |
| | DNEL | Long term Dermal | 0.3 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 0.745 mg/ | General | Systemic |
| | | Inhalation | m³ | population | |
| | DNEL | Long term | 2.112 mg/ | Workers | Systemic |
| | | Inhalation | m³ | _ | |
| methyl methacrylate | DNEL | Long term Dermal | 8.2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 13.67 mg/ | Workers | Systemic |
| | | | kg bw/day | | |
| | DNEL | Long term | 74.3 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 104 mg/m³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Long term | 208 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term | 208 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | | Local |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | | Local |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | population | |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | population | |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | population | |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | population | |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | Workers | Local |
| | DNEL | Long term Oral | 8.2 mg/kg | General | Systemic |
| | | _ | bw/day | population | - |
| | DNEL | Short term | 208 mg/m ³ | General | Local |
| | | Inhalation | 5 | population | |
| | DNEL | Short term | 416 mg/m ³ | Workers | Local |
| | | | <u> </u> | | |

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| | | Inhalation | | | |
|-------------|------|------------------|----------------------|---------|----------|
| naphthalene | DNEL | Long term Dermal | 3.57 mg/ | Workers | Systemic |
| | | | kg bw/day | | |
| | DNEL | Long term | 25 mg/m ³ | Workers | Local |
| | | Inhalation | _ | | |
| | DNEL | Long term | 25 mg/m³ | Workers | Systemic |
| | | Inhalation | | | |
| | | | | | |

PNECs

| Product/substance | Compartment Detail | Value | Method Detail |
|---|---------------------------|------------------|---------------|
| 2 ,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | Fresh water | 0.000214 mg/l | - |
| , , , | Marine water | 0.0000214 mg/l | - |
| | Fresh water sediment | 1.692 mg/kg dwt | - |
| | Marine water sediment | 0.1692 mg/kg dwt | - |
| | Soil | 5 mg/kg dwt | - |
| | Sewage Treatment Plant | 1.5 mg/l | - |
| methyl methacrylate | Fresh water | 0.94 mg/l | - |
| | Marine water | 0.94 mg/l | - |
| | Fresh water sediment | 5.74 mg/kg dwt | _ |
| | Soil | 1.47 mg/kg dwt | - |
| | Sewage Treatment Plant | 10 mg/l | - |
| naphthalene | Fresh water | 0.0024 mg/l | - |
| | Marine water | 0.0024 mg/l | - |
| | Fresh water sediment | 0.0672 mg/kg dwt | _ |
| | Marine water sediment | 0.0672 mg/kg dwt | |
| | Soil | 0.0533 mg/kg dwt | |
| | Sewage Treatment Plant | 2.9 mg/l | - |

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.EN 166

Skin protection

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SECTION 8: Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Hydrocarbon-proof gloves

nitrile rubber

Fluorinated rubber

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.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 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

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

Expropriate 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

Finsure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of inadequate ventilation wear respiratory protection: Type A/P2 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.

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear]
Colour : Orange.
Odour : Characteristic.
Odour threshold : Not available.
Melting point/freezing point : Wot applicable.

Initial boiling point and

boiling range

: >300°C (>572°F) [EN ISO 3405]

Flammability (solid, gas) : Not applicable.

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SECTION 9: Physical and chemical properties

Wower: 7% Upper/lower flammability or Upper: 9% explosive limits

pen cup: 150°C (302°F) [ASTM D 92] Flash point

▶150°C (>302°F) [ASTM E 659] **Auto-ignition temperature**

Decomposition temperature : Not applicable.

Product is non-soluble (in water). : Not applicable.

Kinematic (40°C): 17 mm²/s [ISO 3104] **Viscosity**

Solubility(ies)

Media Result water Not soluble

Solubility in water : 0.888 g/l : No. Miscible with water

Partition coefficient: n-octanol/ : Not applicable.

water

: F0.013 kPa (<0.1 mm Hg) [room temperature]</pre> Vapour pressure

Not applicable. [50°C (122°F)]

Relative density : 0.817 [ISO 3675]

: 0.817 g/cm³ [15°C (59°F)] [ISO 3675] **Density**

Vapour density : >2 [Air = 1]

Particle characteristics

: Not applicable. Median particle size

9.2 Other information

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

: Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

: Strong oxidising agents 10.5 Incompatible materials

10.6 Hazardous decomposition products : carbon monoxide carbon dioxide Silicon Dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Acute toxicity</u>

| Product/substance | Result | Species | Dose | Exposure | Test |
|---|---------------------------------------|-------------------|---|----------|---|
| Fydrogenated dimerization products of 1-decene and reaction products of 1-decene,hydrogenated | LC50 Inhalation Dusts and mists | Rat | 1.17 mg/l | 4 hours | OECD 403 |
| 1-deceme, riyurogenateu | LD50 Dermal LD50 Oral | Rat Rat | >2000 mg/kg >5000 mg/kg | - | OECD 402 OECD 423 Acute Oral toxicity - Acute Toxic Class Method |
| Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | LC50 Inhalation Dusts and mists | Rat | 1.4 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal LD50 Oral | Rat Rat | >2000 mg/kg >5000 mg/kg | - | OECD 402 OECD 401 |
| reaction mass of: branched icosane;branched docosane; branched tetracosane | LC50 Inhalation Dusts | Rat | 1.5 mg/l | 4 hours | - |
| | LD50 Dermal LD50 Oral | Rat Rat | >2000 mg/kg >2000 mg/kg | - | OECD 402 OECD 420 |
| Distillates (petroleum), hydrotreated middle | LC50 Inhalation Dusts and mists | Rat | 4.6 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal LD50 Oral | Rabbit Rat | >2000 mg/kg >5000 mg/kg | - | OECD 402 OECD 401 |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | LD50 Oral | Rat - Female | 1200 mg/kg | - | OECD 401 |
| methyl methacrylate | LC50 Inhalation Vapour LD50 Dermal | Rat Rabbit | 29.8 mg/l >5 g/kg | 4 hours | - OECD 402 |
| naphthalene | LD50 Oral LD50 Dermal LD50 Oral | Rat Rat Rat | 7872 mg/kg >2500 mg/kg 500 mg/kg ATE value Category 4 | - | - |

Conclusion/Summary

: Based on available data, the classification criteria are met.

Acute toxicity estimates

| Product/substance | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| LUIDE DA (TOTAL) | N/A | N/A | N/A | N/A | 1.6 |
| Hydrogenated dimerization products of 1-decene | N/A | N/A | N/A | N/A | 1.17 |
| and reaction products of 1-decene,hydrogenated | | | | | |
| Hydrogenated dimerization products of 1-decene, | N/A | N/A | N/A | N/A | 1.4 |
| 1-dodecene and 1-octene | | | | | |
| reaction mass of: branched icosane; branched | N/A | N/A | N/A | N/A | 1.5 |
| docosane; branched tetracosane | | | | | |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) | 1200 | N/A | N/A | N/A | N/A |
| alkyl imino) diethanol | | | | | |

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| methyl methacrylate | 7872 | N/A | N/A | 29.8 | N/A |
|---------------------|------|-----|-----|------|-----|
| naphthalene | 500 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/substance | Result | Species | Score | Exposure | Test |
|---|---|----------------------------|----------------|------------------------------|--------------------|
| 2/2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | Skin - Oedema | Rabbit | 3.67 | 4 hours | OECD 404 |
| methyl methacrylate naphthalene | Skin - Erythema/Eschar Skin - Irritant Skin - Mild irritant | Rabbit Rabbit Rabbit | 2.67 - - | 4 hours 4 hours 495 mg | OECD 404 - - |

Conclusion/Summary

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

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

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

Sensitisation

| Product/substance | Route of exposure | Species | Result |
|---------------------|-------------------|---------|-------------|
| methyl methacrylate | skin | Mouse | Sensitising |

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. Contains sensitiser

May produce an allergic reaction.

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

Mutagenicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Carcinogenicity

| Product/substance | Result | Species | Dose | Exposure |
|-------------------|------------------------------|---------|------|-----------|
| aphthalene | Positive - Inhalation - TDLo | Rat | - | 105 weeks |

Conclusion/Summary

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

Reproductive toxicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/substance | Category | Route of exposure | Target organs |
|---------------------|------------|-------------------|------------------------------|
| methyl methacrylate | Category 3 | - | Respiratory tract irritation |

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Not available.

Conclusion/Summary

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

Aspiration hazard

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SECTION 11: Toxicological information

| Product/substance | Result |
|---|--------------------------------|
| ydrogenated dimerization products of 1-decene and reaction products of 1-decene, hydrogenated | ASPIRATION HAZARD - Category 1 |
| Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated middle | ASPIRATION HAZARD - Category 1 |

Conclusion/Summary: Based on available data, the classification criteria are met.

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation : Marmful if inhaled.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion: May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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SECTION 11: Toxicological information

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

SECTION 12: Ecological information

12.1 Toxicity

| Product/substance | Result | Species | Exposure | Test |
|--|---------------------------------------|---|------------|----------|
| Hydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | Acute EC50 1000 mg/l | Algae - Selenastrum capricornutum | 72 hours | - |
| | Acute LC50 5056 mg/l | Daphnia - Americamysis bahia | 48 hours | - |
| | Acute LC50 5003 mg/l | Fish | 96 hours | - |
| | Acute NOEL >5003 mg/l | Fish - Cyprinodon variegatus | 96 hours | OECD 203 |
| | Chronic NOEC 1001 mg/l | Daphnia | 21 days | OECD 211 |
| reaction mass of: branched icosane;branched docosane; branched tetracosane | Acute EC50 >1000 mg/l | Algae - Pseudokirchneriella subcapitata | 96 hours | - |
| | Acute EC50 151 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| Distillates (petroleum), hydrotreated middle | Acute EC50 22 mg/l | Algae | 72 hours | OECD 201 |
| | Acute EC50 68 mg/l | Daphnia | 48 hours | OECD 202 |
| | Chronic NOEL 0.163 mg/l | Daphnia | 21 days | - |
| | Chronic NOEL 0.069 mg/l | Fish | 14 days | - |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | Acute EC50 0.12 mg/l | Algae | 72 hours | - |
| | Acute LC50 0.6 mg/l | Fish | 96 hours | - |
| | Chronic NOEC 0.32 mg/l | Daphnia | 21 days | - |
| methyl methacrylate | Acute EC50 110 mg/l | Algae - Selenastrum capricornutum | 72 hours | - |
| | Acute EC50 69 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| | Acute LC50 79 mg/l | Fish | 96 hours | - |
| | Chronic NOEC 37 mg/l | Daphnia - Daphnia magna | 21 days | - |
| naphthalene | Acute EC50 1.09 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| | Acute EC50 >20 mg/l | Micro-organism | 18 hours | - |
| | Acute EC50 0.93 mg/l | Micro-organism | 30 minutes | - |
| | Acute LC50 2350 μg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours | - |
| | Acute LC50 0.91 mg/l | Fish | 96 hours | - |
| | Acute LC50 213 µg/l Fresh water | Fish - Melanotaenia fluviatilis - Larvae | 96 hours | - |
| | Chronic NOEC 0.5 mg/l Marine water | Crustaceans - Uca pugnax - Adult | 3 weeks | - |
| | Chronic NOEC 1.5 mg/l Fresh water | Fish - Oreochromis mossambicus | 60 days | - |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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SECTION 12: Ecological information

Conclusion/Summary : Not available.

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|--------------------|
| ydrogenated dimerization products of 1-decene, 1-dodecene and 1-octene | - | - | Readily |
| Distillates (petroleum), hydrotreated middle | - | - | Readily |
| methyl methacrylate naphthalene | - | - - | Readily Readily |

12.3 Bioaccumulative potential

| Product/substance | LogPow | BCF | Potential |
|---|-------------|---------------------|------------|
| ydrogenated dimerization products of 1-decene and reaction products of 1-decene, hydrogenated | 6.5 | - | high |
| reaction mass of: branched icosane; branched docosane; branched tetracosane | >6.5 | - | high |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 3.6 | - | low |
| methyl methacrylate naphthalene | 1.38 3.3 | 2.97 36.5 to 168 | low low |

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product generally shows low soil

mobility The product is insoluble and floats on water. Loss by evaporation is limited

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever 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.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste. 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: 13 02 06*

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ICAO/IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

14.7 Maritime transport in

bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia inventory (AIIC) : Not determined.

Canada inventory : Not determined.

China inventory (IECSC) : Not determined.

Europe inventory : MI components are listed or exempted.

Japan inventory : Japan inventory (CSCL): At least one component is not listed.

: Not determined.

: Not determined.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals

(NZIoC)

Philippines inventory (PICCS) : Not determined.

Korea inventory (KECI) : All components are listed or exempted.

Taiwan Chemical Substances Inventory

(TCSI)

Thailand inventory : Not determined.

Turkey inventory : Not determined.

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

Vietnam inventory : Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

UVCB Substance of unknown or Variable composition, Complex reaction products

or Biological material

NOEC No Observed Effect Concentration

QSAR = Quantitative Structure-Activity Relationship

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SECTION 16: Other information

Procedure used to derive the classification

| Classification | Justification |
|---|---------------------------------------|
| Acute Tox. 4, H332 Asp. Tox. 1, H304 | Calculation method Calculation method |

Full text of abbreviated H statements

| ⊮ 225 | Highly flammable liquid and vapour. |
|--------------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Full text of classifications

| Cute Tox. 4 | ACUTE TOXICITY - Category 4 |
|-------------------|---|
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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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.

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