|  | VALEO SERV  | /ICE SAS                     | Revision nr. 1   |  |
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| Valeo                                    | MEAG  | ר                            |  |  |
| Vareo                                    |   |                              | Dated 09/05/2018                                       |  |
|  |   |                              |  |  |
|  | PROTEC  | TIV 35                       | Printed on 09/05/2018                                  |  |
|  | 81971   |                              |  |  |
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|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  | Safety Data   | a Sheet                      |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| SECTION 1. Identificatio                 | n of the substance/mixture ar                                       | nd of the company/           | undertaking  |  |
|  |   |                              | -  |  |
| 1.1. Product identifier                  |   |                              |  |  |
| Product name                             | PROTECTIV 35 : HYBF   | RID -20 °C                   |  |  |
|  | 819711  |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| 1.2 Palay ant identified uses of the     | substance or mixture and uses advice                                | dagainst                     |  |  |
|  | e substance or mixture and uses advise<br>DILUTED COOLANT (for B2C) | ayama                        |  |  |
| FRE                                      |   |                              |  |  |
| IdentifiedUses                           | la du otri e l  | Drofossianal                 | Concurrent   |  |
| De-icing and anti-icing applications     | Industrial  | Professional                 | Consumer   |  |
| Denoting and antiholing applications     | *   | <b>v</b>                     | *  |  |
|  |   |                              |  |  |
| 1.3. Details of the supplier of the s    | afety data sheet  |                              |  |  |
| Name                                     | Valeo Service Africa 8  | k Overseas                   |  |  |
| Full address                             | 70 rue Pleyel   | _                            |  |  |
| District and Country                     | 93285 Saint Denis Ceo   | lex                          |  |  |
|  | France  |                              |  |  |
|  | Tel. +33(0)149453232  |                              |  |  |
|  |   |                              |  |  |
| e-mail address of the competent pe       | 20 D  |                              |  |  |
|  |   |                              |  |  |
| responsible for the Safety Data She      | et vsao.contact.mailbox   | @valeo.com                   |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| 1.4. Emergency telephone numbe           |   |                              |  |  |
| For urgent inquiries refer to            | +33(0)149453232 (bus  | iness hours)                 |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| SECTION 2. Hazards ide                   | ntification   |                              |  |  |
|  |   |                              |  |  |
| 2.1. Classification of the substance     | or mixture  |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| The product is closefied as here rds     | us pursuant to the provisions out forth in                          | (FC) Degulation 1272/2009    | (CLD) (and autoactuan termandments and                 |  |
| supplements) The product thus requi      | res a safety datasheet that complies with th                        | e provisions of (FLI) Regula | 8 (CLP) (and subsequen t amendments and ation 2015/830 |  |
|  | the risks for health and/or the environment                         |                              |  |  |
| , ing additional method is of concerning |   |                              |  |  |
| Hazard classification and indication:    |   |                              |  |  |
| Acute toxicity, category 4               | H302  | Harmful if swallowe          | he   |  |
| Specific target organ toxicity - repea   |   |                              | e to organsthrough prolonged or repeated               |  |
|  |   | exposure.                    |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| 2.2. Label elements                      |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
| Hazard labelling pursuant to EC Requ     | lation 1272/2008 (CLP) and subsequent ar                            | mendments and supplement     | ts.  |  |
|  |   |                              |  |  |
| Hazard pictograms:                       |   |                              |  |  |
| παζαια μιστογιαπιδ.                      |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |
|  |   |                              |  |  |

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|                                      |   |  |                       |  |
| Signal words:                        | Warning   |  |                       |  |
| Hazard statements:                   |   |  |                       |  |
| H302<br>H373                         | Harmful if swallowed.<br>May cause damage to orga   | nsthrough prolonged or repeated exposure.                              |                       |  |
| Precautionary statements:            |   |  |                       |  |
| P101<br>P102                         | If medical advice is needed<br>Keep out of reach of childre   | , have product container or label at hand.                             |                       |  |
| P102<br>P264                         | Wash hands thoroughly aft   | erhandling.  |                       |  |
| P301+P312<br>P314                    | IF SWALLOWED: Call a PC<br>Get medical advice / attent  | DISON CENTER / doctor / / if you feel unwell<br>on if you feel unwell. |                       |  |
| P501                                 | Get medical advice / attention if you feel unwell.<br>Dispose of contents/container in accordance with local/regional/national/international regulations. |  |                       |  |
| Contains:                            | ETHANEDIOL  |  |                       |  |
| 2.3. Other hazards                   |   |  |                       |  |
| On the basis of available da         | ta, the product does not con  | tain any PBT or vPvB in percentage greater than                        | 0,1%.                 |  |
| SECTION 3. Comp                      | osition/information   | on ingredients   |                       |  |
| 3.1. Substances                      |   |  |                       |  |
| Information not relevant             |   |  |                       |  |
| 3.2. Mixtures                        |   |  |                       |  |
| Identification                       | x = Conc. %   | Classification 1272/2008 (CLP)   |                       |  |
| ETHANEDIOL                           |   |  |                       |  |
| CAS 107-21-1                         | $25 \le x < 40$   | Acute Tox. 4 H302, STOT RE 2 H373                                      |                       |  |
| EC 203-473-3                         |   |  |                       |  |
| INDEX 603-027-00-1                   | 20 yang   |  |                       |  |
| Reg. no. 01-2119456816               |   |  |                       |  |
| BORAX PENTAHYDRATE<br>CAS 12179-04-3 | 0,5≤x< 1  | Repr. 1B H360FD, Eye Irrit. 2 H319                                     |                       |  |
| EC 215-540-4                         | 0,0 = X 5 1   | Rept. 10 10001 D, Lye Init. 21013                                      |                       |  |
| INDEX -                              |   |  |                       |  |
| Reg.no. 01-2119490790                | )-32-xxxx   |  |                       |  |
|                                      |   |  |                       |  |
|                                      |   |  |                       |  |
|                                      |   |  |                       |  |
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The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

### 5.3. Adv ice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of con taminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.



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Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drinkor smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers a way from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

| CZE        |                          |   |
|------------|--------------------------|---|
|            | Ceská Republika          | Nařízení vlády č. 361/2007 Sb. kterým sestanoví podmínky ochrany zdraví při práci                                 |
| DEU        |                          |   |
|            | Deutschland              | TRGS 900 (Fassung 4.11.2016) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte                                 |
| DNK        |                          |   |
|            | Danmark                  | Graensev aerdier per stoffer og materialer  |
| ESP        | España                   | INSHT - Límites de exposición profesional para agentes químicos en España 2017                                    |
| FRA        | France                   | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102<br>EH40/2005 Workplace exposure limits                          |
| GBR<br>GRC | United Kingdom<br>Ελλάδα | ΕΗ40/2005 Workplace exposure limits<br>ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥ ΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 |
| HRV        | Hrvatska                 | NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva   |
| HUN        | Magy arország            | 50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról   |
| ITA        | Italia                   | Decreto Legislativo 9 Aprile 2008, n.81   |

| Vale                         | 0  |   | ١   |   | RVICE SA<br>EAO          | S                     |      | ision nr. 1<br>ed 09/05/2018 |                     |
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|                              |  |   |   | DDAT-   |                          |                       |      | nted on 09/05/2018           |                     |
|                              |  |   |   |   | CTIV 35                  |                       | r in |                              |                     |
|                              |  |   |   | 819   | 9711                     |                       | Pan  | je n. 5/14                   |                     |
|                              |  |   |   |   |                          |                       | 1 ag |                              |                     |
| SWE S<br>TUR T<br>EU C       | Nederland<br>Sverige<br>Fürkiye<br>DEL EU<br>FLV-ACGIH |   | Occupational<br>2000/39/EC s<br>Directive (EU | Exposure Limit Va<br>ayılı Direktifin eki<br>)2017/2398; Dire | alues, AF 2011:18<br>dir | 64; Directive 2009/16 |      |                              | Directive           |
| ETHANEDIOL<br>Threshold Limi | it Value   |   |   |   |                          |                       |      |                              |                     |
| Туре                         |  | Country                                   | TWA/8h  |   | STEL/15min               |                       |      |                              |                     |
|                              |  |   | mg/m3   | ppm   | mg/m3                    | ppm                   |      |                              |                     |
| TLV                          |  | CZE                                       | 50  |   | 100                      |                       | SKIN |                              |                     |
| AGW                          |  | DEU                                       | 26  | 10  | 52                       | 20                    | SKIN |                              |                     |
| MAK                          |  | DEU                                       | 26  | 10  | 52                       | 20                    | SKIN |                              |                     |
| TLV                          |  | DNK                                       | 26  | 10  |                          |                       | SKIN |                              |                     |
| VLA                          |  | ESP                                       | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| VLEP                         |  | FRA                                       | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| WEL                          |  | GBR                                       | 52  | 20  | 104                      | 40                    |      |                              |                     |
| TLV                          |  | GRC                                       | 125   | 50  | 125                      | 50                    |      |                              |                     |
| GVI                          |  | HRV                                       | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| AK                           |  | HUN                                       | 52  |   | 104                      |                       |      |                              |                     |
| VLEP                         |  | ITA                                       | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| OEL                          |  | NLD                                       | 52  |   | 104                      |                       | SKIN |                              |                     |
| MAK                          |  | SWE                                       | 25  | 10  | 50                       | 20                    | SKIN |                              |                     |
| ESD                          |  | TUR                                       | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| OEL                          |  | EU  | 52  | 20  | 104                      | 40                    | SKIN |                              |                     |
| TLV-ACGIH                    |  |   |   |   | 100 (C)                  |                       |      |                              |                     |
| Predicted no-effe            | ct concentratio  | n - PNEC                                  |   |   |                          |                       |      |                              |                     |
| Normal value in fr           | reshwater  |   |   |   | 10                       | mg/l                  |      |                              |                     |
| Normal value in m            | narine water   |   |   |   | 1                        | mg/l                  |      |                              |                     |
| Normal value for f           | fresh water seo  | diment                                    |   |   | 20,9                     | mg/kg                 |      |                              |                     |
| Normal value for v           | water, intermitt                                       | tent release                              |   |   | 10                       | mg/l                  |      |                              |                     |
| Normal value of S            | STP microorga  | nisms                                     |   |   | 199,5                    | mg/l                  |      |                              |                     |
| Normal value for t           | the terrestrial c                                      | ompartment                                |   |   | 1,53                     | mg/kg                 |      |                              |                     |
| Health - Derive              | ed no-effect l   | level - DNEL/D<br>Effects on<br>consumers | MEL   |   |                          | Effects on<br>workers |      |                              |                     |
| Route of exposure            | e  | Acute local                               | Acutesystem                                   | ic  | Chronic<br>systemic      | Chronic local         |      |                              | Chronic<br>systemic |
| Inhalation                   |  |   |   | 7 mg/m3   | VND                      |                       |      | 35 mg/m3                     | VND                 |
|                              |  |   |   | VND   | 53 mg/kg/d               |                       |      | VND                          | 106 mg/kg/          |

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.



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#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### **SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard ENISO 20344). Wash body with so ap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent a cci dental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards

## **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

| Appearance<br>Colour<br>Odour<br>Odour threshold<br>pH<br>Melting point/freezing point<br>Initial boiling point<br>Boiling range<br>Flash point<br>Evaporation Rate<br>Flammability of solids and gases<br>Lower inflammability limit | green/blue or pink<br>characteristic<br>Not available<br>7 - 10<br>-20 °C<br>> 100 °C<br>Not available<br>> 125 °C<br>Not available<br>Not available<br>Not available |
|---|---|
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| Upper inflammability limit<br>Lower explosive limit<br>Upper explosive limit<br>Vapour pressure<br>Vapour density<br>Relative density<br>Solubility<br>Partition coefficient: n-octanol/water<br>Auto-ignition temperature<br>Decomposition temperature<br>Viscosity<br>Explosive properties<br>Oxidising properties | Not available<br>4,9 % (V/V)<br>14,6 % (V/V)<br>Not available<br>1,040 - 1,060<br>soluble<br>-1,93<br>> 400 °C<br>Not available<br>Not available<br>Not available<br>Not available<br>Not available |                                       |
| 9.2. Other information   |   |                                       |
| VOC (Directive 2010/75/EC) :<br>VOC (volatile carbon) :  | 0<br>0  |                                       |

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

ETHANEDIOL Reacts with strong oxidising agents.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

### 10.4. Conditions to avoid

Avoid overheating.

ETHANEDIOL ETHANEDIOL: avoid exposure to sources of heat and naked flames.

### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

Do not store in zinc-coated.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

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ETHANEDIOL: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, formaldehyde, carbon monoxide, hydrogen.

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

ETHANEDIOL

ETHANEDIOL: following ingestion it initially stimulates the CNS; later on depression results. Renal damage with anuria and uremia may occur. Symptoms of over exposure are: vomiting, somnolence, difficulty in breathing, convulsions. The lethal dose in man is approximately 1.4 l/kg. The way of entry is inhalation and ingestion.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: 800,27 mg/kg LD50 (Dermal) of the mixture: Not classified (no significant component)

BORAX PENTAHYDRATE

LD50 (Oral) 3305 mg/kg

LD50 (Dermal) > 2000 mg/kg

LC50 (Inhalation) > 2 mg/l



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ETHANEDIOL

LD50 (Oral) > 300 mg/kg

LD50 (Dermal) > 5000 mg/kg Rabbit

### SKINCORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

May cause damage to organs

### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

| <u>u</u> | EU |  |
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| BORAX PENTAHYDRATE   |                                 |  |
|--|---------------------------------|--|
| LC50 - for Fish  | > 498 mg/l/96h Limanda limanda  |  |
| Chronic NOEC for Fish  | > 19 mg/l Micropterus salmoides |  |
| Chronic NOEC for Algae / Aquatic Plants  | > 67 mg/l Chlorella pyrenoidosa |  |
| ETHANEDIOL   |                                 |  |
| LC50 - for Fish  | > 100 mg/l/96h                  |  |
| Chronic NOEC for Fish  | > 100 mg/l                      |  |
| Chronic NOEC for Crustacea   | > 100 mg/l                      |  |
| 12.2. Persistence and degradability  |                                 |  |
| BORAX PENTAHYDRATE   |                                 |  |
| Degradability: information not available   |                                 |  |
| ETHANEDIOL   |                                 |  |
| Rapidly degradable<br>12.3. Bioaccumulative potential  |                                 |  |
| BORAX PENTAHYDRATE   |                                 |  |
| Partition coefficient: n-octanol/water   | -1,53                           |  |
| ETHANEDIOL   |                                 |  |
| Partition coefficient: n-octanol/water   | -1,93                           |  |
| 12.4. Mobility in soil   |                                 |  |
| ETHANEDIOL<br>ETHANEDIOL: very mobile in soil.<br>12.5. Results of PBT and v Pv B assessment         |                                 |  |
| ETHANEDIOL<br>ETHANEDIOL: is not considered to be PBT or vPvB.<br><b>12.6. Other adverse effects</b> |                                 |  |
| Information not available  |                                 |  |

# **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

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CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATÁ) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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| Vuieu  |  |  | Dated 09/05/2018                                  |
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|  |  |  |   |
| Information not relevant   |  |  |   |
| SECTION 15. Regulatory   | <i>information</i>                                     |  |   |
|  |  |  |   |
| 15.1. Safety, health and env ironm   | ental regulations/legisla                              | ation specific for the substance or mixt                                 | ure   |
| Seveso Category - Directive 2012/18/   | /EC: None  |  |   |
| Portrictiona relating to the product or  |  | rsuant to Annex XVII to EC Regulation 19                                 | 007/20.06   |
| Restrictions relating to the product of  | contained substances put                               | Isuant to Annex A VII to EC Regulation 19                                | 30//2006  |
| Product  | 0  |  |   |
| Point  | 3  |  |   |
| Contained substance  |  |  |   |
|  |  |  |   |
| Point  | 30   | BORAX<br>PENTAHYDRATE  |   |
|  |  | Reg. no.: 01-  |   |
|  |  | 2119490790-32-xxxx   |   |
| Substances in Candidate List (Art. 59  | REACH)   |  |   |
| BORAX PENTAHYDRATE   |  |  |   |
| BORAX FENTALLIDRATE  |  |  |   |
| Reg. no.: 01-2119490790-32-xxxx  |  |  |   |
| Substances subject to authorisarion (A   | Annex XIV REACH)                                       |  |   |
|  | <u></u>  |  |   |
| None   |  |  |   |
| Substances subject to exportation rep  | orting pursuant to (EC) R                              | <u>eg. 649/2012:</u>   |   |
|  |  |  |   |
| None   |  |  |   |
| Substances subject to the Rotterdam  | Convention:  |  |   |
| None   |  |  |   |
|  |  |  |   |
| Substances subject to the Stockholm  | Convention:  |  |   |
| None   |  |  |   |
|  |  |  |   |
| Healthcare controls  |  |  |   |
| Workers exposed to this chemical age<br>workers' health and safety are modes           | ent must not undergo hea<br>st and that the 98/24/EC d | alth checks, provided that available risk-ass<br>lirective is respected. | sessment data prove that the risks related to the |
|  |  |  |   |
| AF 0. Ohemised as for  |  |  |   |
| 15.2. Chemical safety assessment   |  |  |   |
| A chemical safety assessment has been performed for the following contained substances |  |  |   |
|  |  |  |   |
|  |  |  |   |



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ETHANEDIOL

BORAX PENTAHYDRATE

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| Repr. 1B     | Reproductive toxicity, category 1B                                 |
|--------------|--|
| Acute Tox. 4 | Acute toxicity, category 4   |
| STOT RE 2    | Specific target organ toxicity - repeated exposure, category 2     |
| Eye Irrit. 2 | Eye irritation, category 2   |
| H360FD       | May damage fertility. May damage the unborn child.                 |
| H302         | Harmful if swallowed.  |
| H373         | May cause damage to organs through prolonged or repeated exposure. |
| H319         | Causes serious eye irritation.                                     |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP - LC50: Lethal Concentration 50%
- LC50: Lethal Concentra - LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament



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8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
The MerckIndex. - 10th Edition
Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet) Patty - Industrial Hygiene and Toxicology N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition IFA GESTIS website ECHA website - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safe ty laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.