# **SAFETY DATA SHEET**

Calumet 420-460



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

| 1.1 Product identifier        |   |
|-------------------------------|---|
| Product name                  | : Calumet 420-460   |
| Index number                  | : 649-422-00-2  |
| EC number                     | : 926-141-6   |
| CAS number                    | : 64742-47-8  |
| Product code                  | : 300345100000  |
| Product description           | : Petroleum refining. Solvent.  |
| Product type                  | : Liquid.   |
| Other means of identification | <ul> <li>Distillates, petroleum, hydrotreated light; Hydrotreated light distillate; Hydrotreated<br/>light distillates (petroleum); DISTILLATES.</li> </ul> |
| Chemical formula              | : CH  |

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

| Identified uses                                      |        |  |
|--|--------|--|
| Petrochemical industry: Petroleum refining. Solvent. |        |  |
| Uses advised against                                 | Reason |  |
| None known.  |        |  |

#### 1.3 Details of the supplier of the safety data sheet

Calumet Refining, LLC 2780 Waterfront Pkwy E. Drive Suite 200 Indianapolis, IN 46214 USA Technical Services: 317-328-5660

Calumet Intenational, Inc. Pa Monument Chemical BVBA Haven 1972, Ketenislaan 3 B-9130 Kallo (Kieldrecht) Belgium +32 3 570 25 20 e-mail address of person : technical@calumetspecialty.com responsible for this SDS

1.4 Emergency telephone number

|--|

| Telephone number | : +31(0) 30274 8888 (24 hours per week and 7 days a week)       |
|------------------|---|
| <u>Supplier</u>  |   |
| Telephone number | : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887 |

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : UVCB

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

Asp. Tox. 1, H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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   |    | Danger  |
|---|----|---|
| Hazard statements   |    | -   |
|   | •  | May be fatal if swallowed and enters airways.   |
| Precautionary statements  |    |   |
| Prevention  |    | Not applicable.   |
| Response  | 1  | IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.                              |
| Storage   | 1  | Store locked up.  |
| Disposal  | :  | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients   | :  | Distillates (petroleum), hydrotreated light   |
| Supplemental label elements   | :  | Not applicable.   |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | :  | Not applicable.   |
| Special packaging requirem  | en | <u>ts</u>   |
| Containers to be fitted<br>with child-resistant<br>fastenings   | :  | Not applicable.   |
| Tactile warning of danger   | :  | Not applicable.   |
| 2.3 Other hazards   |    |   |
| Substance meets the<br>criteria for PBT according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | 1  | No.<br>P: Not available. B: Not available. T: No.   |
| Substance meets the<br>criteria for vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII   | :  | Not available.  |
| Other hazards which do not result in classification   | :  | None known.   |

# **SECTION 3: Composition/information on ingredients**

| Product/ingredient name                        | Identifiers   | %   | Regulation (EC) No.<br>1272/2008 [CLP]  | Туре |
|--|---|-----|---|------|
| Distillates (petroleum),<br>hydrotreated light | EC: 926-141-6<br>CAS: 64742-47-8<br>Index: 649-422-00-2 | 100 | Asp. Tox. 1, H304   | [A]  |
|  |   |     | See Section 16 for<br>the full text of the H<br>statements declared<br>above. |      |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Туре

[\*] Substance

[A] Constituent

[B] Impurity

[C] Stabilising additive

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.   |
|----------------------------|---|
| Inhalation                 | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>If not breathing, if breathing is irregular or if respiratory arrest occurs, provide<br>artificial respiration or oxygen by trained personnel. It may be dangerous to the<br>person providing aid to give mouth-to-mouth resuscitation. Get medical attention if<br>adverse health effects persist or are severe. If unconscious, place in recovery<br>position and get medical attention immediately. Maintain an open airway. Loosen<br>tight clothing such as a collar, tie, belt or waistband.  |
| Skin contact               | : Wash skin thoroughly with soap and water or use recognised skin cleanser.<br>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.<br>Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| Ingestion                  | : Get medical attention immediately. Call a poison center or physician. Wash out<br>mouth with water. Remove dentures if any. Remove victim to fresh air and keep at<br>rest in a position comfortable for breathing. If material has been swallowed and the<br>exposed person is conscious, give small quantities of water to drink. Stop if the<br>exposed person feels sick as vomiting may be dangerous. Aspiration hazard if<br>swallowed. Can enter lungs and cause damage. Do not induce vomiting. If<br>vomiting occurs, the head should be kept low so that vomit does not enter the lungs.<br>Never give anything by mouth to an unconscious person. If unconscious, place in<br>recovery position and get medical attention immediately. Maintain an open airway.<br>Loosen tight clothing such as a collar, tie, belt or waistband. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. 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

| <u>Over-exposure signs/</u> | <u>symptoms</u>  |
|-----------------------------|--|
| Eye contact                 | : No specific data.  |
| Inhalation                  | : No specific data.  |
| Skin contact                | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking |

media

| Ingestion                  | : Adverse symptoms may include the following:<br>nausea or vomiting  |
|----------------------------|--|
| Over-exposure signs/syr    | nptoms   |
| Eye contact                | : No specific data.  |
| Inhalation                 | : No specific data.  |
| Skin contact               | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking   |
| Ingestion                  | : Adverse symptoms may include the following:<br>nausea or vomiting  |
| 4.3 Indication of any imme | ediate medical attention and special treatment needed  |
| Notes to physician         | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled. |
| Specific treatments        | : No specific treatment.   |
| SECTION 5: Firefig         | hting measures   |
| 5.1 Extinguishing media    |  |
| Suitable extinguishing     | : Use an extinguishing agent suitable for the surrounding fire.  |

| Unsuitable extinguishing | : Do not use water jet. |
|--------------------------|-------------------------|
| media                    |                         |

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

| 5.2 Special hazards ansing from the substance of 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                            | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |  |
| 5.3 Advice for firefighters                              |   |  |
| Special protective actions for fire-fighters             | : Promptly 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<br>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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |  |

# **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, protective equipment and emergency procedures |   |  |  |
|---|---|--|--|
| For non-emergency<br>personnel  | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Avoid breathing vapour or<br>mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment. |  |  |
| For emergency responders  | : If specialised 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".   |  |  |

### SECTION 6: Accidental release measures

| 6.2 Environmental : precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>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.   |
|---------------------------------|---|
| 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. |
| 6.4 Reference to other sections | <ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>   |

### **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.<br>Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in<br>the original container or an approved alternative made from a compatible material,<br>kept tightly closed when not in use. Empty containers retain product residue and<br>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.

| Industrial sector specific<br>solutions | : Not available. |
|---|------------------|
| Recommendations                         | : Not available. |
| 7.3 Specific end use(s)                 |                  |

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

**Occupational exposure limits** 

| SECTION 8: Exposure controls/personal protection                       |  |  |  |  |  |
|--|--|--|--|--|--|
| Product/ingredient name<br>Distillates (petroleum), hydrotreated light |  | Exposure limit values  |  |  |  |
|  |  | ht <b>EU OEL (Europe).</b><br>TWA: 200 ppm 8 hours.  |  |  |  |
| Recommended monitoring<br>procedures                                   | atmos<br>of the<br>protec<br>the fol<br>the as<br>limit va<br>atmos<br>of exp<br>(Work<br>for the<br>docum | If this product contains ingredients with exposure limits, personal, workplace<br>atmosphere or biological monitoring may be required to determine the effectiveness<br>of the ventilation or other control measures and/or the necessity to use respiratory<br>protective equipment. Reference should be made to monitoring standards, such as<br>the following: European Standard EN 689 (Workplace atmospheres - Guidance for<br>the assessment of exposure by inhalation to chemical agents for comparison with<br>limit values and measurement strategy) European Standard EN 14042 (Workplace<br>atmospheres - Guide for the application and use of procedures for the assessment<br>of exposure to chemical and biological agents) European Standard EN 482<br>(Workplace atmospheres - General requirements for the performance of procedures<br>for the measurement of chemical agents) Reference to national guidance<br>documents for methods for the determination of hazardous substances will also be<br>required. |  |  |  |
| DNELs/DMELs  |  |  |  |  |  |
| No DNELs/DMELs availab   | le.  |  |  |  |  |
| PNECs  |  |  |  |  |  |
| No PNECs available   |  |  |  |  |  |
| 8.2 Exposure controls  |  |  |  |  |  |
| Appropriate engineering<br>controls                                    |  | d general ventilation should be sufficient to control worker exposure to airborne aminants.  |  |  |  |
| Individual protection meas   | ures   |  |  |  |  |
| Hygiene measures   | before<br>Appro<br>Wash  | h hands, forearms and face thoroughly after handling chemical products,<br>re eating, smoking and using the lavatory and at the end of the working period.<br>opriate techniques should be used to remove potentially contaminated clothing<br>h contaminated clothing before reusing. Ensure that eyewash stations and<br>y showers are close to the workstation location.  |  |  |  |
| Eye/face protection  | asses<br>gases<br>unles  | ty eyewear complying with an approved standard should be used when a risk<br>ssment indicates this is necessary to avoid exposure to liquid splashes, mists,<br>s or dusts. If contact is possible, the following protection should be worn,<br>ss the assessment indicates a higher degree of protection: safety glasses with<br>shields.   |  |  |  |
| Skin protection  |  |  |  |  |  |
| Hand protection  | be wo<br>this is<br>check<br>should<br>differe   | nical-resistant, impervious gloves complying with an approved standard should<br>orn at all times when handling chemical products if a risk assessment indicates<br>s necessary. Considering the parameters specified by the glove manufacturer,<br>k during use that the gloves are still retaining their protective properties. It<br>ld be noted that the time to breakthrough for any glove material may be<br>rent for different glove manufacturers. In the case of mixtures, consisting of<br>ral substances, the protection time of the gloves cannot be accurately<br>nated.  |  |  |  |
| Body protection  | being  | onal protective equipment for the body should be selected based on the task<br>g performed and the risks involved and should be approved by a specialist<br>re handling this product.  |  |  |  |
| Other skin protection  | select   | opriate footwear and any additional skin protection measures should be<br>sted based on the task being performed and the risks involved and should be<br>oved by a specialist before handling this product.  |  |  |  |
| <b>Respiratory protection</b>  | : Based  | ed on the hazard and potential for exposure, select a respirator that meets the  |  |  |  |

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

Calumet 420-460

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

**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**

| 9.1 Information on basic physical               | l a | nd chemical properties  |
|---|-----|---|
| <u>Appearance</u>                               |     |   |
| Physical state                                  | :   | Liquid. [Mobile liquid.]  |
| Colour  | :   | Colourless.   |
| Odour   | :   | Mild. Hydrocarbon.  |
| Odour threshold                                 | 1   | Not available.  |
| рН  | :   | Not available.  |
| Melting point/freezing point                    | :   | -49°C   |
| Initial boiling point and<br>boiling range      | 1   | 222.78 to 245°C   |
| Flash point                                     | 1   | Closed cup: 95°C [Pensky-Martens.] [Product does not sustain combustion.] |
| Evaporation rate                                | 1   | 0.19 (butyl acetate = 1)  |
| Flammability (solid, gas)                       | 1   | Not available.  |
| Upper/lower flammability or<br>explosive limits | 1   | Lower: 0.6%<br>Upper: 5.5%  |
| Vapour pressure                                 | 1   | 0.027 kPa [room temperature]  |
| Vapour density                                  | :   | 4.5 [Air = 1]   |
| Relative density                                | :   | 0.804   |
| Solubility(ies)                                 | :   | Insoluble in the following materials: cold water and hot water.           |
| Partition coefficient: n-octanol/<br>water      | 1   | Not applicable.   |
| Auto-ignition temperature                       | 1   | >220°C  |
| Decomposition temperature                       | :   | Not available.  |
| Viscosity                                       | :   | Kinematic (40°C): 0.02 cm <sup>2</sup> /s                                 |
| Explosive properties                            | :   | Not available.  |
| Oxidising properties                            | 1   | Not available.  |
| 9.2 Other information                           |     |   |
| Solubility in water                             | :   | 1.5 g/l   |
| Pour point                                      | :   | -37.222°C   |
|   |     |   |

# **SECTION 10: Stability and reactivity**

| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients. |
|---|--|
| 10.2 Chemical stability                 | : The product is stable.   |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.            |
| 10.4 Conditions to avoid                | : No specific data.  |
| 10.5 Incompatible materials             | : No specific data.  |

| Date | of issue | /Date of | revision |
|------|----------|----------|----------|
|      |          |          |          |

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

Calumet 420-460

# SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### Acute toxicity

| Product/ingredient name                        | Result                   | Species | Dose        | Exposure |
|--|--------------------------|---------|-------------|----------|
| -  | LD50 Dermal              | Rabbit  |             |          |
| Distillates (petroleum),<br>hydrotreated light | LD50 Dermai              | Rabbil  | >2000 mg/kg | -        |
|  | LD50 Oral                | Rat     | >5000 mg/kg | -        |
| Conclusion/Summary                             | Not available.           |         |             |          |
| Irritation/Corrosion                           |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| <u>Sensitisation</u>                           |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| <u>Mutagenicity</u>                            |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| Carcinogenicity                                |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| Reproductive toxicity                          |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| Teratogenicity                                 |                          |         |             |          |
| Conclusion/Summary                             | : Not available.         |         |             |          |
| Specific target organ toxicity                 | <u>(single exposure)</u> |         |             |          |
| Not available.                                 |                          |         |             |          |
|  |                          |         |             |          |

# Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

| Product/ingredient name                     | Result                         |
|---|--------------------------------|
| Distillates (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation. of exposure Potential acute health effects : No known significant effects or critical hazards. Eye contact Inhalation : No known significant effects or critical hazards. Skin contact : Defatting to the skin. May cause skin dryness and irritation. : May be fatal if swallowed and enters airways. Ingestion 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

# **SECTION 11: Toxicological information**

| Delayed and immediate effec    | ts : | as well as chronic effects from short and long-term exposure   |
|--------------------------------|------|--|
| Short term exposure            |      |  |
| Potential immediate<br>effects | :    | Not available.   |
| Potential delayed effects      | :    | Not available.   |
| Long term exposure             |      |  |
| Potential immediate<br>effects | :    | Not available.   |
| Potential delayed effects      | :    | Not available.   |
| Potential chronic health effe  | ect  | 2  |
| Not available.                 |      |  |
| <b>Conclusion/Summary</b>      | :    | Not available.   |
| General                        | :    | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/<br>or dermatitis. |
| Carcinogenicity                | :    | No known significant effects or critical hazards.  |
| Mutagenicity                   | :    | No known significant effects or critical hazards.  |
| Teratogenicity                 | :    | No known significant effects or critical hazards.  |
| <b>Developmental effects</b>   | :    | No known significant effects or critical hazards.  |
| Fertility effects              | :    | No known significant effects or critical hazards.  |

### Other information

: Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name                        | Result                            | Species | Exposure |
|--|-----------------------------------|---------|----------|
| Distillates (petroleum),<br>hydrotreated light | Acute EC50 >1000 mg/l             | Algae   | 72 hours |
| , ,  | Acute LC50 >1000 mg/l Fresh water | Daphnia | 48 hours |
| Conclusion/Summary                             | : Not available.                  | -       | -        |

### 12.2 Persistence and degradability

| <b>_</b>                                       | -  |                     |           |      |                  |
|--|--|---------------------|-----------|------|------------------|
| Product/ingredient name                        | Test   | Result              |           | Dose | Inoculum         |
| Distillates (petroleum),<br>hydrotreated light | OECD 301F<br>Ready<br>Biodegradability -<br>Manometric<br>Respirometry<br>Test | 69 % - Readily - 28 | days      | -    | -                |
| Conclusion/Summary                             | : Not available.   |                     |           |      |                  |
| Product/ingredient name                        | Aquatic half-life  |                     | Photolysi | S    | Biodegradability |
| Distillates (petroleum),<br>hydrotreated light | -  |                     | -         |      | Readily          |

### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

| SECTION 12: Ecological information                     |                  |  |
|--|------------------|--|
| Soil/water partition<br>coefficient (K <sub>oc</sub> ) | : Not available. |  |
| Mobility   | : Not available. |  |

#### 12.5 Results of PBT and vPvB assessment

| PBT                        | : No.   |  |
|----------------------------|---|--|
|                            | P: Not available. B: Not available. T: No.          |  |
| vPvB                       | : Not available.                                    |  |
|                            | vP: Not available. vB: Not available.               |  |
| 12.6 Other adverse effects | : No known significant effects or critical hazards. |  |

# **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.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation<br>and any regional local authority requirements. Dispose of surplus and non-<br>recyclable products via a licensed waste disposal contractor. Waste should not be<br>disposed of untreated to the sewer unless fully compliant with the requirements of<br>all authorities with jurisdiction. |
| Hazardous waste     | : The classification of the product may meet the criteria for a hazardous waste.   |
| 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<br>taken when handling emptied containers that have not been cleaned or rinsed out.<br>Empty containers or liners may retain some product residues. Avoid dispersal of<br>spilt material and runoff and contact with soil, waterways, drains and sewers.   |

# **SECTION 14: Transport information**

|                | ADR/RID        | ADN            | IMDG           | ΙΑΤΑ           |
|----------------|----------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |

**14.6 Special precautions for user**: **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.

14.7 Transport in bulk: Not available.according to Annex II of<br/>Marpol and the IBC Code

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (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.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market

and use of certain dangerous substances,

mixtures and articles

### **Other EU regulations**

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

| Date of issue/Date of revision |     | : 11/28/2017   | Version |
|--------------------------------|-----|--|---------|
| Viet Nam                       | :   | Not determined.  |         |
| United States                  | :   | This material is listed or exempted.   |         |
| Turkey                         | - : | This material is listed or exempted.   |         |
| Thailand                       | - : | Not determined.  |         |
| Taiwan                         | - 1 | This material is listed or exempted.   |         |
| Republic of Korea              | - : | This material is listed or exempted.   |         |
| Philippines                    | 1   | This material is listed or exempted.   |         |
| New Zealand                    | 1   | This material is listed or exempted.   |         |
| Malaysia                       | 1   | This material is listed or exempted.   |         |
| Japan                          | :   | Japan inventory (ENCS): This material is listed or exempted. Japan inventory (ISHL): Not determined. |         |
| Europe                         | 1   | This material is listed or exempted.   |         |
| China                          | 1   | This material is listed or exempted.   |         |
| Canada                         | :   | This material is listed or exempted.   |         |
| Australia                      | 1   | This material is listed or exempted.   |         |
| Inventory list                 |     |  |         |

Date of issue/Date of revision

# SECTION 15: Regulatory information

**15.2 Chemical safety** : Complete. assessment

## **SECTION 16: Other information**

| Indicates information that has changed from previously issued version. |  |  |  |  |
|--|--|--|--|--|
| Abbreviations and<br>acronyms  | <ul> <li>ATE = Acute Toxicity Estimate<br/>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.<br/>1272/2008]<br/>DMEL = Derived Minimal Effect Level<br/>DNEL = Derived No Effect Level<br/>EUH statement = CLP-specific Hazard statement<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>RRN = REACH Registration Number<br/>vPvB = Very Persistent and Very Bioaccumulative</li> </ul> |  |  |  |

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification    | Justification         |  |
|-------------------|-----------------------|--|
| Asp. Tox. 1, H304 | On basis of test data |  |

Full text of abbreviated H statements

| H304                            |              | May be fatal if swallowed and enters airways. |
|---------------------------------|--------------|---|
| Full text of classifications    | [CLP/GHS]    |   |
| Asp. Tox. 1, H304               |              | ASPIRATION HAZARD - Category 1                |
| Date of issue/ Date of revision | : 11/28/2017 |   |
| Version<br>Notice to reader     | : 1          |   |

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.