According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Revision Date: 02/29/2016 | Print Date: 05/02/2016 |
|--|--|
| | |
| : Shell Morlina S3 BA 460 | |
| : 001D7823 | |
| s details | |
| Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA | |
| : (+1) 877-276-7285 : | |
| mber | |
| : 877-504-9351 : 877-242-7400 | |
| | |
| | Shell Morlina S3 BA 460 : 001D7823 is details : Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA : (+1) 877-276-7285 : mber : 877-504-9351 |

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

| Hazard pictograms | : No Hazard Symbol required |
|--------------------------|--|
| Signal word | : No signal word |
| Hazard statements | PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria. |
| Precautionary statements | Prevention: No precautionary phrases. Response: No precautionary phrases. Storage: No precautionary phrases. Disposal: No precautionary phrases. |

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 1.3

Revision Date: 02/29/2016

Print Date: 05/02/2016

Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

| Chemical name | Synonyms | CAS-No. | Concentration (%) |
|--------------------------|--------------------|---------|-------------------|
| N-phenyl-1-naphthylamine | Phenyl alpha naph- | 90-30-2 | 0.1 - 0.99 |
| | thylamine | | |

SECTION 4. FIRST-AID MEASURES

| General advice | : | Not expected to be a health hazard when used under normal conditions. |
|---|---|---|
| If inhaled | : | No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice. |
| In case of skin contact | : | Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. |
| In case of eye contact | : | Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. |
| If swallowed | : | In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. |
| Most important symptoms and effects, both acute and delayed | : | Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. |
| Protection of first-aiders | : | When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings. |
| Immediate medical attention, special treatment | : | Treat symptomatically. |

SECTION 5. FIRE-FIGHTING MEASURES

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Version 1.3 | Revision Date: 02/29/2016 | Print Date: 05/02/2016 |
|---|--|--|
| Suitable extinguishing media | : Foam, water spray or fog. Dry ch ide, sand or earth may be used fo | • |
| Unsuitable extinguishing media | : Do not use water in a jet. | |
| Specific hazards during fire- fighting | Hazardous combustion products A complex mixture of airborne so gases (smoke). Carbon monoxide may be evolve occurs. Unidentified organic and inorgani | lid and liquid particulates and dif incomplete combustion |
| Specific extinguishing meth- ods | : Use extinguishing measures that cumstances and the surrounding | |
| Special protective equipment for firefighters | : Proper protective equipment inclu gloves are to be worn; chemical r large contact with spilled product Breathing Apparatus must be wo a confined space. Select fire fight relevant Standards (e.g. Europe | resistant suit is indicated if is expected. Self-Contained rn when approaching a fire in ter's clothing approved to |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Avoid contact with skin and eyes. |
|---|---|--|
| Environmental precautions | : | Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. |
| | | Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. |
| Additional advice | : | For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet. |

SECTION 7. HANDLING AND STORAGE

| Technical measures | : Use local exhaust ventilation if there is risk of inhalation of |
|--------------------|---|
| 3 / 15 | 800001011985 |
| | US |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Version 1.3 | R | evision Date: 02/29/2016 | Print Date: 05/02/2016 |
|-------------------------------|---|--|---|
| | | vapours, mists or aerosols. Use the information in this data s sessment of local circumstances ate controls for safe handling, sto material. | to help determine appropri- |
| Precautions for safe handling | : | Avoid prolonged or repeated con Avoid inhaling vapour and/or mis When handling product in drums worn and proper handling equipr Properly dispose of any contamin rials in order to prevent fires. | sts. , safety footwear should be nent should be used. |
| Avoidance of contact | : | Strong oxidising agents. | |
| Product Transfer | : | This material has the potential to Proper grounding and bonding p during all bulk transfer operations | rocedures should be used |
| Storage | | | |
| Other data | : | Keep container tightly closed and place. Use properly labeled and closabl | |
| | | Store at ambient temperature. | |
| Packaging material | : | Suitable material: For containers steel or high density polyethylene Unsuitable material: PVC. | |
| Container Advice | : | Polyethylene containers should r peratures because of possible ris | |

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-------------------|--------------|--------------------------------------|--|--|
| Oil mist, mineral | Not Assigned | TWA ((inhal- able frac- tion)) | 5 mg/m3 | US. ACGIH Threshold Limit Values |
| | | (Mist) | 5 mg/m3 | OSHA_TRA NS |

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| ersion 1.3 | Revision Date: 02/29/2016 | Print Date: 05/02/2016 |
|--|---|--|
| tact the supplier. Further na National Institute of Occupa http://www.cdc.gov/niosh/ Occupational Safety and H http://www.osha.gov/ Health and Safety Executiv http://www.hse.gov.uk/ Institut für Arbeitsschutz De http://www.dguv.de/inhalt/ir | commended exposure measurement me ational methods may be available. ational Safety and Health (NIOSH), USA ealth Administration (OSHA), USA: San e (HSE), UK: Methods for the Determin eutschen Gesetzlichen Unfallversicherun ndex.jsp erche et de Securité, (INRS), France htt | A: Manual of Analytical Method npling and Analytical Methods nation of Hazardous Substance ng (IFA) , Germany |
| Engineering measures | : The level of protection and type vary depending upon potential e controls based on a risk assess Appropriate measures include: Adequate ventilation to control a | es of controls necessary will exposure conditions. Select ment of local circumstances. |
| | Where material is heated, spray greater potential for airborne co | |
| | General Information: Define procedures for safe hand controls. Educate and train workers in the measures relevant to normal ac product. Ensure appropriate selection, te equipment used to control expos equipment, local exhaust ventila Drain down system prior to equi nance. Retain drain downs in sealed sta subsequent recycle. Always observe good personal I washing hands after handling th drinking, and/or smoking. Routi protective equipment to remove taminated clothing and footwear Practice good housekeeping. | e hazards and control tivities associated with this esting and maintenance of sure, e.g. personal protective ation. pment break-in or mainte- orage pending disposal or hygiene measures, such as he material and before eating, inely wash work clothing and contaminants. Discard con- |
| Personal protective equip Respiratory protection | No respiratory protection is ordin conditions of use. In accordance with good industr tions should be taken to avoid b If engineering controls do not m tions to a level which is adequat select respiratory protection equ cific conditions of use and meeti Check with respiratory protective Where air-filtering respirators ar priate combination of mask and Select a filter suitable for the con | rial hygiene practices, precau- preathing of material. aintain airborne concentra- te to protect worker health, uipment suitable for the spe- ing relevant legislation. e equipment suppliers. re suitable, select an appro- filter. |

Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 1.3 Revision Date: 02/29/2016 Print Date: 05/02/2016 Hand protection Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection, PVC, neoprene or nitrile rubber aloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended. Skin and body protection Skin protection is not ordinarily required beyond standard : work clothes. It is good practice to wear chemical resistant gloves. : Personal protective equipment (PPE) should meet recom-Protective measures mended national standards. Check with PPE suppliers. **Environmental exposure controls** General advice Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : Liquid at room temperature. |
|------------|-------------------------------|
| Colour | : amber |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Odour | : Slight hydrocarbon | |
|--|--|--------------------------------|
| Odour Threshold | : Data not available | |
| рН | : Not applicable | |
| pour point | : -6 °C / 21 °FMethod: | ASTM D5950 |
| Initial boiling point and boiling range | : > 280 °C / 536 °Festi | mated value(s) |
| Flash point | : 290 °C / 554 °F Method: ASTM D92 | |
| Evaporation rate | : Data not available | |
| Flammability (solid, gas) | : Data not available | |
| Upper explosion limit | : Typical 10 %(V) | |
| Lower explosion limit | : Typical 1 %(V) | |
| Vapour pressure | : < 0.5 Pa (20 °C / 68 ° estimated value(s) | F) |
| Relative vapour density | : > 1estimated value(s) |) |
| Relative density | : Data not available | |
| Density | : Data not available | |
| Solubility(ies) Water solubility | : negligible | |
| Solubility in other solvents | : Data not available | |
| Partition coefficient: n- octanol/water | : Pow: > 6(based on in | formation on similar products) |
| Auto-ignition temperature | : > 320 °C / 608 °F | |
| Viscosity Viscosity, dynamic | : Data not available | |
| Viscosity, kinematic | : 460 mm2/s (40.0 °C / Method: ASTM D445 | |
| | 29.1 mm2/s (100 °C / Method: ASTM D445 | 212 °F) |
| Explosive properties | : Not classified | |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Version 1.3 | Revision Date: 02/29/2016 | Print Date: 05/02/2016 |
|---------------------------|------------------------------------|--------------------------|
| Oxidizing properties | : Data not available | |
| Conductivity | : This material is not expected to | be a static accumulator. |
| Decomposition temperature | : Data not available | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | The product does not pose any further reactivity hazar addition to those listed in the following sub-paragraph. | |
|---|---|--------|
| Chemical stability | Stable. | |
| Possibility of hazardous reac- tions | Reacts with strong oxidising agents. | |
| Conditions to avoid | Extremes of temperature and direct sunlight. | |
| Incompatible materials | Strong oxidising agents. | |
| Hazardous decomposition products | Hazardous decomposition products are not expected t during normal storage. | o form |

SECTION 11. TOXICOLOGICAL INFORMATION

| Basis for assessment | : | Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, |
|----------------------|---|---|
| | | the data presented is representative of the product as a whole, rather than for individual component(s). |

Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

| Product: | |
|---------------------------|--|
| Acute oral toxicity | : LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity: |
| Acute inhalation toxicity | : Remarks: Not considered to be an inhalation hazard under normal conditions of use. |
| Acute dermal toxicity | : LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity: |

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 1.3

Revision Date: 02/29/2016

Print Date: 05/02/2016

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

N-phenyl-1-naphthylamine:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Remarks: Classified Skin Sensitiser Category 1B.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

| IARC | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
|-------|---|
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| NTP | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 1.3

Revision Date: 02/29/2016

Print Date: 05/02/2016

a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

| Basis for assessment | Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract). |
|--|--|
| Ecotoxicity | |
| Product: | |
| Toxicity to fish (Acute toxici- ty) | : Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l |
| Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) | : Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l |
| Toxicity to algae (Acute tox- icity) | : Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| sion 1.3 | Re | vision Date: 02/29/2016 | Print Date: 05/02/20 |
|---|----|--|--|
| Toxicity to fish (Chronic tox- icity) | : | Remarks: Data not available | |
| Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | Remarks: Data not available | |
| Toxicity to bacteria (Acute toxicity) | : | Remarks: Data not available | |
| Components: | | | |
| N-phenyl-1-naphthylamine: M-Factor (Acute aquatic tox- icity) | : | 1 | |
| Persistence and degradabili | ty | | |
| Product: | | | |
| Biodegradability | | Remarks: Expected to be not rea Major constituents are expected ble, but contains components that ment. | to be inherently biodegrada |
| Bioaccumulative potential | | | |
| Product: | | | |
| Bioaccumulation | | Remarks: Contains components cumulate. | with the potential to bioac- |
| Mobility in soil | | | |
| Product: | | | |
| Mobility | | Remarks: Liquid under most env If it enters soil, it will adsorb to so mobile. | |
| | | Remarks: Floats on water. | |
| Other adverse effects no data available | | | |
| Product: | | | |
| Additional ecological infor- mation | | Product is a mixture of non-volat expected to be released to air in Not expected to have ozone dep cal ozone creation potential or gl | any significant quantities. letion potential, photochem |
| | | Poorly soluble mixture. May cause physical fouling of aq | uatic organisms. |
| | | Mineral oil is not expected to cau aquatic organisms at concentrati | |
| | | aquatic organisms at concentrati | ons less than 1 mg/l. |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 1.3

Revision Date: 02/29/2016

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|--------------------------|---|
| Waste from residues : | Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste. |
| | Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or na- tional requirements and must be complied with. |
| Contaminated packaging : | Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations. |

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| Pollution category Ship type Product name Special precautions | : N : N | Not applicable Not applicable Not applicable Not applicable | | | |
|--|------------|--|--|--|--|
| ecial precautions for user | | | | | |

Spe

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

: MARPOL Annex 1 rules apply for bulk shipments by sea. Additional Information

SECTION 15. REGULATORY INFORMATION

- **OSHA Hazards**
- : No OSHA Hazards

Version 1.3

Revision Date: 02/29/2016

Print Date: 05/02/2016

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------------|-----------|-----------------------|--------------------------------|
| Xylene, Mixed Isomers | 1330-20-7 | 100 | * |
| Naphthalene | 91-20-3 | 100 | * |
| Cumene | 98-82-8 | 5000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 Hazards | : | No SARA Hazards |
|----------------------|---|---|
| SARA 302 | : | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 313 | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

| Xylene, mixed isomers | 1330-20-7 | 0.0005 % |
|-----------------------|-----------|----------|
| Naphthalene | 91-20-3 | 0.0005 % |
| | | |

| California Prop 65 | WARNING! This product contains a chemical known to the State of California to cause cancer. | | | |
|---|---|--|--|--|
| The components of this product are reported in the following inventories: | | | | |

| EINECS | | All components listed or polymer exempt. |
|--------|---|--|
| TSCA | : | All components listed. |
| DSL | : | All components listed. |

SECTION 16. OTHER INFORMATION

Further information NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| ersion 1.3 | Revision Date: 02/29/2016 | Print Date: 05/02/20 |
|------------|---|----------------------------------|
| | eft margin indicates an amendment from nyms : The standard abbreviations ar ment can be looked up in refe dictionaries) and/or websites. | nd acronyms used in this docu- |
| | ACGIH = American Conferenc Hygienists | e of Governmental Industrial |
| | ADR = European Agreement of Carriage of Dangerous Goods | |
| | AICS = Australian Inventory of | f Chemical Substances |
| | ASTM = American Society for BEL = Biological exposure lim | |
| | BTEX = Benzene, Toluene, E CAS = Chemical Abstracts Se | |
| | CEFIC = European Chemical | |
| | CLP = Classification Packagin | |
| | COC = Cleveland Open-Cup | |
| | DIN = Deutsches Institut fur N | |
| | DMEL = Derived Minimal Effect | |
| | DSL = Canada Domestic Subs | |
| | EC = European Commission | |
| | EC50 = Effective Concentratio | |
| | ECETOC = European Center gy Of Chemicals | on Ecotoxicology and Toxicolo |
| | ECHA = European Chemicals | Agency |
| | EINECS = The European Inve | |
| | Chemical Substances | |
| | EL50 = Effective Loading fifty | |
| | ENCS = Japanese Existing an Inventory | id New Chemical Substances |
| | EWC = European Waste Code | 2 |
| | GHS = Globally Harmonised S Labelling of Chemicals | |
| | IARC = International Agency f | |
| | IATA = International Air Trans | |
| | IC50 = Inhibitory Concentratio IL50 = Inhibitory Level fifty | п плу |
| | IMDG = International Maritime | Dangerous Goods |
| | INV = Chinese Chemicals Inve | |
| | IP346 = Institute of Petroleum | |
| | determination of polycyclic arc KECI = Korea Existing Chemic | |
| | LC50 = Lethal Concentration f | |
| | LD50 = Lethal Dose fifty per c | |
| | LL/EL/IL = Lethal Loading/Effe | ective Loading/Inhibitory loadin |
| | LL50 = Lethal Loading fifty | and in the December of |
| | MARPOL = International Conv Pollution From Ships | vention for the Prevention of |
| | NOEC/NOEL = No Observed | Effect Concentration / No Ob- |
| | served Effect Level | |
| | OE_HPV = Occupational Expo | |
| | PBT = Persistent, Bioaccumul | |
| | PICCS = Philippine Inventory Substances | or Unemicals and Unemical |
| | PNEC = Predicted No Effect C | |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Version 1.3 | Revision Date: 02/29/2016 | Print Date: 05/02/2016 |
|---------------|---|--|
| | REACH = Registration Evaluatio Chemicals RID = Regulations Relating to In- gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very | ternational Carriage of Dan- it nt ontrol Act |
| Revision Date | : 02/29/2016 | |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.