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ACCORDING TO OSHA HCS (29 CFR 1910.1200)



**Crude Condensate** 

## **SECTION 1: IDENTIFICATION**

Product identifier

Telephone Fax

Product name Crude Condensate CAS No. 64741-47-5

Other means of identification Natural Gas Condensates, Petroleum, Crude Oil Condensate, Gas Drips

Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) Motor fuels.

Anything other than the above. Uses advised against

Details of the supplier of the safety data sheet

Supplier Vitol Inc.

2925 Richmond Ave, 11th Floor

Houston, TX 77098 (713) 230-1000 713-230-1185 E-mail (competent person) SDSHOU@vitol.com

**Emergency telephone number** 

Emergency Phone No. Chemtrec: US/Canada: 1-800-424-9300 (24h)

Mexico: 800 681 9531 (24h)

## **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Flammable Liquid, Category 1 Health hazards Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2

Germ cell mutagenicity, Category 1B Carcinogen, Category 1B

Reproductive toxicity, Category 2 Specific target organ toxicity — repeated exposure, Category 2

Environmental hazards Hazardous to the aquatic environment, Acute, Category 2 Hazardous to the aquatic environment, Chronic, Category 2

Label elements

Hazard Pictogram(s)









Signal Word(s) **DANGER** 

Hazard Statement(s) Extremely flammable liquid and vapour. May be fatal if swallowed and enters airways.

> Causes skin irritation. May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

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Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Obtain special instructions before use.

Do not breathe vapour.

Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Do NOT induce vomiting.

Store locked up.

Avoid release to environment.

Dispose of contents in accordance with local, state or national legislation.

Other hazards

The vapour is heavier than air; beware of pits and confined spaces. May cause irritation to eyes and air passages. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

and the contraction

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0% of the mixture consists of ingredients of unknown acute inhalated toxicity.
0% of the mixture consists of ingredients of unknown acute oral toxicity.
0% of the mixture consists of ingredients of unknown acute dermal toxicity.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Classification: OSHA HCS (29 CFR 1910.1200)

| Chemical identity of the substance | %W/W | CAS No.    | EC No.    |
|------------------------------------|------|------------|-----------|
| Natural Gas Condensate.C2-20       | 100  | 64741-47-5 | 265-047-3 |
|                                    |      |            |           |

### **Hazardous constituents**

| itaonto                            |         |           |           |  |  |
|------------------------------------|---------|-----------|-----------|--|--|
| Chemical identity of the substance | %W/W    | CAS No.   | EC No.    |  |  |
| Toluene                            | 1- 7    | 108-88-3  | 203-625-9 |  |  |
| Hydrogen Sulfide                   | 0.1 - 5 | 7783-06-4 | 231-977-3 |  |  |
| Benzene                            | < 5     | 71-43-2   | 200-753-7 |  |  |

## **SECTION 4: FIRST AID MEASURES**



### Description of first aid measures

Self-protection of the first aider

Avoid all contact. Do not breathe vapour. Eliminate sources of ignition. If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus. Drench contaminated clothing with water before removing to avoid risk of sparks from static electricity. Do not use mouth-to-mouth resuscitation. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid exposure during pregnancy. Do not ingest. If swallowed then seek immediate medical assistance.

Hydrogen sulphide (H2S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations.

If there is any suspicion of inhalation: A self contained breathing apparatus should be worn. Remove to fresh air immediately.

H2S Warning:

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Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation. Get medical advice/attention if you feel unwell.

Skin contact

IF ON SKIN (or hair): Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If irritation persists, get medical attention.

Eye contact

IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. If irritation persists, get medical attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water and give small quantities of water to drink. Do not give anything by mouth to an unconscious person. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Do not wait for symptoms to appear.

Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Notes to a physician:

IF SWALLOWED: Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry powder

Do not use water jet. Direct water jet may spread the fire.

Extremely flammable liquid and vapour. Will float and can be reignited on surface water. A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. May form explosive mixture with air. Prevent liquid entering sewers, basements and any watercourses. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. If sulphur compounds are present in appreciable amounts, combustion products may include also H2S and SOx (sulfur oxides) or sulfuric acid.

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

# Advice for firefighters

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Eliminate sources of ignition. Shut off leaks if without risk. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Do not ingest. If swallowed then seek immediate medical assistance. Do not use sparking tools. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Avoid exposure during pregnancy.

Methods and material for containment and cleaning up

Provided it is safe to do so, isolate the source of the leak. Use non-sparking equipment when picking up flammable spill. The vapour is heavier than air; beware of pits and confined spaces. Ensure that the equipment is adequately grounded. Allow small spillages to evaporate provided there is adequate ventilation. Wear flame-resistant antistatic protective clothing. Wear chemical protection suit and breathing apparatus.

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### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Storage temperature Incompatible materials Obtain special instructions before use. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Prevent vapour build up by providing adequate ventilation during and after use. May form explosive mixtures with air. Take action to prevent static discharges. Use non-sparking tools. All parts of the plant and equipment should be electrically bonded together and connected to earth. Electrical continuity should be checked at regular intervals. Antistatic clothing and footwear should be used. The vapour is heavier than air; beware of pits and confined spaces. Avoid all contact with substance. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe vapour. See Section: 8. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.

Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability / explosion hazards. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in original packaging. Keep containers properly sealed when not in use. Protect from sunlight. Containers of this material may be hazardous when empty since they retain product residue. Empty container may contain product residue which may result in flammable or

explosive vapours inside the container.

Stable at ambient temperatures.

Keep away from oxidising agents. Strong Acids and Alkalis

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

| SUBSTANCE                 | CAS No.   | LTEL (8 hr TWA<br>ppm) | LTEL (8 hr TWA<br>mg/m³) | STEL (ppm) | STEL (mg/m³) | Note      |
|---------------------------|-----------|------------------------|--------------------------|------------|--------------|-----------|
| Toluene 108-88            |           | 100                    | 375                      | 150        | 560          | NIOSH     |
|                           | 108-88-3  | 200                    | -                        | 300        | -            | OSHA      |
|                           |           | 20                     | -                        | -          | -            | ACGIH, A4 |
| Hydrogen sulphide 7783-06 |           | =                      | -                        | 10*        | 15*          | NIOSH     |
|                           | 7783-06-4 | -                      | -                        | 20         | -            | OSHA      |
|                           |           | 1                      | -                        | 5          | -            | ACGIH     |
| Benzene                   |           | 0.1                    | 0.32                     | 1^         | 3.2          | NIOSH     |
|                           | 71-43-2   | 1                      | -                        | 5          | -            | OSHA      |
|                           |           | 0.5                    | -                        | 2.5        | -            | ACGIH, A1 |

Note: OSHA PELs 1910.1000 TABLE Z-1/2/3 / NIOSH RELs / ACGIH TLVs

A1: Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiological studies.

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

### **Biological exposure indicies**

| SUBSTANCE | CAS No.  | Determinant                       | Biological Exposure<br>Indices | Sampling Time                   | Note |
|-----------|----------|-----------------------------------|--------------------------------|---------------------------------|------|
|           |          | Toluene in blood                  | 0.02 mg/l                      | Prior to last shift of workweek | -    |
| Toluene   | 108-88-3 | Toluene in urine                  | 0.03 mg/l                      | End of shift                    | -    |
|           |          | o-Cresol in urine with hydrolosis | 0.3 mg/g creatinine            | End of shift                    | В    |

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2019

Note:

B: Background

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, well-

<sup>^</sup>Ceiling limit value (15 min)

<sup>\*</sup>NIOSH 15 minute average values

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ventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Individual protection measures, such as personal protective equipment

Fuels are typically used, transferred and transported in closed systems. If exposure is likely (i.e. during sampling) the following advice may be appropriate. Keep good industrial hygiene. Always wash hands before smoking, eating and drinking. Do not eat, drink or smoke at the work place. Avoid all contact. Do not breathe vapour. Avoid exposure during pregnancy.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Use eye protection according to EN 166, designed to protect against liquid splashes.

Skin protection



**Hand protection:** Wear impervious gloves (recommended: EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Efficiency of at least 80%).

#### Body protection: Wear anti-static clothing and shoes.

Small scale: Wear suitable coveralls to prevent exposure to the skin.

Large scale: Chemical protection suit.

Respiratory protection



When the product is heated / In case of inadequate ventilation wear respiratory protection. The use of a high efficiency filter (recommended: EN143) is recommended. Filter type A1.

Closed system(s): Not normally required.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance

Odour

Odour threshold pH

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapour pressure

Vapour density

Relative density

Solubility(ies)
Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

#### Other information

Specific Gravity
Bulk Density

Amber to dark brown liquid

Rotten egg / sulfurous; Petroleum.

Not available

Not applicable

Not available

-20 to 800 °F / -29 to 427 °C

-51 °F / -46 °C (Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010)

1

Not available

Upper limit: 6.0% Lower limit: 1.3%

5-15 psia (Reid VP) @ 100°F / 37.8°C

1 (air=1)

Not available

Not available Not available

590 °F / 310 °C

Not available

Not available

0.6 - 0.8 @ 60°F (15.6°C) (water = 1)

6.25 lbs/gal

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Chemical stability

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VOC Content (%) 50

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions. Reacts with - Strong oxidising agents

Stable under normal conditions. Hazardous polymerisation will not occur.

Product may release Hydrogen Sulphide.

Possibility of hazardous reactions Extremely flammable liquid and vapour. May form explosive mixture with air.

Vapours are heavier than air and may travel considerable distances to a source

of ignition and flashback.

Conditions to avoid Elevated temperature. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Keep away from direct sunlight.

Keep away from oxidising agents. Strong Acids and Alkalis.

Hazardous decomposition products A mixture of solid and liquid particulates and gases including unidentified organic

and inorganic compounds. Decomposes in a fire giving off toxic fumes: COx,

H2S, SOx,

### SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Ingestion

Incompatible materials

Acute toxicity - Inhalation

Acute toxicity - Skin contact

Skin corrosion/irritation

Serious eye damage/irritation Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure STOT - repeated exposure

**Aspiration hazard** 

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

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

Calculated acute toxicity estimate (ATE) > 5 mg/L (Vapour)

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Skin Corrosion/Irritation, Category 2: Causes skin irritation.

Irritating to skin. (rabbit) (OECD 404)

Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Germ cell mutagenicity, Category 1B: May cause genetic defects.

EU Harmonised Classification.

ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1%

benzene.

Carcinogen, Category 1B: May cause cancer.

EU Harmonised Classification.

ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1%

benzene.

Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn

child.

ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1%

oluene

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

Specific target organ toxicity — repeated exposure, Category 2: (thymus, liver, blood effects). May cause damage to organs through prolonged or repeated

exposure. Oral: No data Inhalation: No data

Dermal:

NOAEL: 375 mg/kg bw/day

Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.

EU Harmonised Classification.

Information on likely routes of exposure

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InhalationPossible – accidental exposureIngestionPossible – accidental exposureSkin contactPossible – accidental exposureEye contactUnlikely – accidental exposure

Early onset symptoms related to exposure May be fatal if swallowed and enters airways. Causes skin irritation.

Delayed health effects from exposure May cause genetic defects. May cause cancer. Suspected of damaging fertility

or the unborn child. May cause damage to organs through prolonged or repeated

exposure.

Exposure levels and health effects See Section: 8

Interactive effects None known

Other information

OSHA Designated Carcinogen

Not listed

NIOSH Occupational Carcinogen List

NTP Report on Carcinogens

Not listed

IARC Monographs

Not listed

## **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** Hazardous to the aquatic environment, Acute, Category 2: Toxic to aquatic life.

LL50: 8.2 mg/L (Fish) (Unnamed publication, 1995)

Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic

life with long lasting effects.

NEOLR: 2.6 mg/L (Fish) (OECD 211)

Persistence and degradability

Substance is complex UVCB. Standard tests for this endpoint are intended for

single substances and are not appropriate for this complex substance

Bioaccumulative potential Substance is complex UVCB. Standard tests for this endpoint are intended for

single substances and are not appropriate for this complex substance

Mobility in soil

Substance is complex UVCB. Standard tests for this endpoint are intended for

single substances and are not appropriate for this complex substance

Other adverse effects None known.

## **SECTION 13: Disposal considerations**

Waste treatment methods

Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they retain product residue.

## **SECTION 14: Transport information**

UN number
UN proper shipping name

Transport hazard class(es)

Packing group

**Environmental hazards** 

Special precautions for user

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

Road/rail (ADR/RID)

UN1267

PETROLEUM CRUDE

OIL 3

Environmentally hazardous substance

See Section: 2 Not applicable Sea transport (IMDG)

PETROLEUM CRUDE OIL

Classified as a Marine Pollutant.

Air (ICAO/IATA)

UN1267

PETROLEUM CRUDE OIL

OIL 3 I

Environmentally hazardous substance

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## **SECTION 15: REGULATORY INFORMATION**

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

#### **US Federal Regulations**

TSCA Chemical Data Reporting (CDR) Rule

NIOSH Occupational Carcinogen List

EPCRA Section 313

CWA 307- Toxic

CERCLA - Hazardous Substances

CWA Section 311 List of Hazardous Substances

Not listed

Not listed

Not listed

Not listed

#### **US State Regulations**

Proposition 65 (California)

Mot listed
Massachusetts, New Jersey, Pennsylvania, Rhode

Not listed

Island- State Right to Know Lists

 New York -State Right to Know Lists
 Not listed

 Minnesota - State Right to Know Lists
 Not listed

 Massachusetts - Toxic Use reduction act
 Not listed

#### Non-Regional

IARC Monographs Not listed

## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

Version 3.0

Revision Date 14 April 2021

**Date of First Issue** Not available. 2<sup>ND</sup> ISSUE RELEASED JUNE, 15 2015

This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

### References:

Existing Safety Data Sheet (SDS),

EU Harmonised Classification and Existing ECHA registration for Natural Gas Condensate.. C2-20 (CAS No. 64741-47-5).

| Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200 | Classification procedure                                |  |
|---|---|--|
| Flammable Liquid, Category 1  | Flash point (°C) / Boiling Point (°C)                   |  |
| Aspiration hazard, Category 1   | High percentage inclusion of components with Aspiration |  |
| Aspiration nazard, Category 1   | hazard  |  |
| Skin Corrosion/Irritation, Category 2   | Summation Calculation                                   |  |
| Germ cell mutagenicity, Category 1B   | Threshold Calculation                                   |  |
| Carcinogen, Category 1B   | Threshold Calculation                                   |  |
| Reproductive toxicity, Category 2   | Threshold Calculation                                   |  |
| Specific target organ toxicity — repeated exposure,   | Threshold Calculation                                   |  |
| Category 2  | The Shou Galculation                                    |  |
| Hazardous to the aquatic environment, Acute, Category 2   | Summation Calculation                                   |  |
| Hazardous to the aquatic environment, Chronic, Category 2                                       | Summation Calculation                                   |  |

#### Legend

ADR/RID ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations

concerning the international railway transport of dangerous goods

ATE Acute Toxicity Estimate
BCF Bioconcentration factor (BCF)
CAS CAS: Chemical Abstracts Service

EC European Community
EN European Standard

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EU European Union

IATA International Air Transport Association

ICAO/IATA ICAO: International Civil Aviation Organization / IATA: International Air Transport Association

IMDG International Maritime Dangerous Goods

Koc Soil Adsorption Coefficient

Kow Partition coefficient: n-octanol/water

LC50 Lethal concentration 50

LD50 Lethal dose 50

LOAEL Lowest dose adverse effect level LTEL Long Term Exposure Limit

NOAEC No Observed Averse Effect concentration
NOAEL No Observed Adverse Effect Level

OECD Organisation for Economic Cooperation and Development

PBT PBT: Persistent, Bioaccumulative and Toxic

PNEC Predicted No Effect Concentration

(Q)SAR Quantitative structure-activity relationship (QSAR)

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL Short Term Exposure Limit
TWA Time Weighted Average

UN United Nations

vPvB very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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