

# SAFETY DATA SHEET

# **DOW CHEMICAL COMPANY LIMITED**

Safety Data Sheet according to Reg. (EU) No 2015/830

Product name: SENSENE™ Modified Alcohol Solvent Revision Date: 06.10.2016

Version: 4.0

**Print Date:** 13.10.2016

DOW CHEMICAL COMPANY LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: SENSENE™ Modified Alcohol Solvent

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

Identified uses: Industrial solvent.

1.3 Details of the supplier of the safety data sheet COMPANY IDENTIFICATION

DOW CHEMICAL COMPANY LIMITED DIAMOND HOUSE, LOTUS PARK, KINGSBURY CRESCENT, STAINES England TW18 3AG UNITED KINGDOM

Customer Information Number: +44 (0) 203 139 4000 SDSQuestion@dow.com

1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 0031 115 694 982 **Local Emergency Contact:** 00 31 115 69 4982

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008:

Aspiration hazard - Category 1 - H304 For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

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# **Hazard pictograms**



# Signal word: DANGER

#### **Hazard statements**

H304 May be fatal if swallowed and enters airways.

# **Precautionary statements**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Contains Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

# 2.3 Other hazards

No data available

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

#### 3.2 Mixtures

This product is a mixture.

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN Confidential EC-No. Confidential Index-No.	_	>= 50.0 - <= 70.0 %	Modified alcohol	Not classified
CASRN - EC-No. 920-901-0 Index-No.	01-2119456810-40	>= 30.0 - <= 50.0 %	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Asp. Tox 1 - H304

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If present in this product, any not classified components disclosed above for which no country specific OEL value(s) is(are) indicated under Section 8, are being disclosed as voluntarily disclosed components.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

#### 4.1 Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

- **4.2 Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
- 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician: Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: No data available

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# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

#### 5.3 Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contacting an ignition source.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

- **6.1 Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond all containers and handling equipment. Vapor explosion hazard. Keep out of sewers. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- **6.2 Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Material may float on water and any runoff may create an explosion or fire hazard if ignited.
- 6.3 Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Absorb with materials such as: Sand. Vermiculite. Large spills: Dike area to contain spill. Collect in suitable and properly labeled containers. Pump with explosion-proof equipment. If available, use foam to smother or suppress. See Section 13, Disposal Considerations, for additional information.
- **6.4 Reference to other sections:** References to other sections, if applicable, have been provided in the previous sub-sections.

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# **SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:** Keep away from heat, sparks and flame. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Ignition sources can include and are not limited to pilot lights, flames, smoking, sparks, heaters, electrical equipment, and static discharges. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

- **7.2 Conditions for safe storage, including any incompatibilities:** Minimize sources of ignition, such as static build-up, heat, spark or flame. Do not store in: Aluminum.
- 7.3 Specific end use(s): See the technical data sheet on this product for further information.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Modified alcohol	Dow IHG	TWA	20 ppm

#### 8.2 Exposure controls

**Engineering controls:** Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

#### Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as

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this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Use the following CE approved air-purifying respirator: Organic vapor cartridge, type A (boiling point >65 °C)

#### **Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

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

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state liquid
Color Colorless
Odor mild

Odor Threshold No test data available pH No test data available

Melting point/range not determined

Freezing point No test data available Boiling point (760 mmHg) 180 °C Estimated.

Flash point closed cup 65 °C Estimated.

Evaporation Rate (Butyl Acetate No data available

= 1)

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Not Applicable

0.6 % vol Literature

7.0 % vol Literature

Vapor Pressure 0.054 kPa at 20 °C Calculated.

Relative Vapor Density (air = 1) No test data available

Relative Density (water = 1) 0.839 at 20 °C

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Water solubility 0.5 % at 20 °C Partition coefficient: n- No data available

octanol/water

Auto-ignition temperature165 °CLiteratureDecomposition temperatureNo data availableKinematic ViscosityNo test data available

**Explosive properties**Not explosive **Oxidizing properties**No Oxidizing

9.2 Other information

Molecular weight No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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

10.1 Reactivity: No data available

10.2 Chemical stability: Thermally stable at typical use temperatures.

10.3 Possibility of hazardous reactions: Polymerization will not occur.

- **10.4 Conditions to avoid:** Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight.
- 10.5 Incompatible materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.
- **10.6 Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicological information appears in this section when such data is available.

# 11.1 Information on toxicological effects

# Acute toxicity

#### **Acute oral toxicity**

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product: Single dose oral LD50 has not been determined.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

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# Acute inhalation toxicity

Prolonged excessive exposure may cause adverse effects. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

As product: The LC50 has not been determined.

#### Skin corrosion/irritation

Prolonged contact may cause skin irritation with local redness.

Prolonged or repeated exposure may cause defatting of the skin leading to drying or flaking of skin.

# Serious eye damage/eye irritation

May cause slight eye irritation.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Corneal injury is unlikely.

#### Sensitization

Based on information for component(s):

Skin contact may cause an allergic skin reaction in a small proportion of individuals.

For respiratory sensitization:

No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

Contains component(s) which have been reported to cause effects on the following organs in animals: Adrenal gland.

Kidney.

Liver.

For some component(s):

Kidney effects and/or tumors have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

#### Carcinogenicity

For similar material(s): Did not cause cancer in laboratory animals.

#### **Teratogenicity**

Contains component(s) which did not cause birth defects in laboratory animals. Contains component(s) which, in laboratory animals, have been toxic to the fetus only at doses toxic to the mother.

# Reproductive toxicity

Contains component(s) which did not interfere with reproduction in animal studies.

#### Mutagenicity

Contains a component(s) which were negative in in vitro genetic toxicity studies. Contains component(s) which were negative in animal genetic toxicity studies.

#### **Aspiration Hazard**

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Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

# **COMPONENTS INFLUENCING TOXICOLOGY:**

#### Modified alcohol

# Acute oral toxicity

LD50, Rat, 3,300 mg/kg

#### Acute dermal toxicity

LD50, Rat, > 2,000 mg/kg

# Acute inhalation toxicity

LC50, Rat, 4 Hour, vapour, > 5.25 mg/l No deaths occurred at this concentration.

#### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

# Acute oral toxicity

Based on information for a similar material: LD50, Rat, > 5,000 mg/kg

#### **Acute dermal toxicity**

Based on information for a similar material: LD50, Rabbit, > 5,000 mg/kg

#### Acute inhalation toxicity

Prolonged excessive exposure may cause adverse effects. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

Based on information for a similar material: LC50, Rat, 8 Hour, vapour, 5 mg/l OECD Test Guideline 403 No deaths occurred at this concentration.

# **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological information appears in this section when such data is available.

#### 12.1 Toxicity

#### Modified alcohol

#### Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

LC50, Poecilia reticulata (guppy), static test, 96 Hour, > 1,000 mg/l

NOEC sublethal, Oncorhynchus mykiss (rainbow trout), flow-through test, 14 Hour, > 300 mg/l

#### Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 10 mg/l LOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 32 mg/l MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 18 mg/l

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## Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 14 d, survival, > 1,000 mg/kg

# Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

#### Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

Based on information for a similar material:

LC0, Pimephales promelas (fathead minnow), 96 Hour, 1,000 mg/l, OECD Test Guideline 203 or Equivalent

# Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC0, Daphnia magna, 48 Hour, 1,000 mg/l, Method Not Specified.

# Acute toxicity to algae/aquatic plants

Based on information for a similar material:

NOELR, Pseudokirchneriella subcapitata (green algae), 72 Hour, 1,000 mg/l, Method Not Specified.

# Chronic toxicity to aquatic invertebrates

NOELR, Daphnia magna (Water flea), 21 d, 1 mg/l

#### 12.2 Persistence and degradability

# **Modified alcohol**

**Biodegradability:** Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability). Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail **Biodegradation:** 18 - 32 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

10-day Window: Not applicable

Biodegradation: 25 % Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

# Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Based on information for a similar material:

**Biodegradation:** 31.3 % **Exposure time:** 28 d

Method: Method Not Specified.

#### 12.3 Bioaccumulative potential

#### **Modified alcohol**

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**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.42 Measured

Bioconcentration factor (BCF): 4 Oncorhynchus mykiss (rainbow trout) 43 d Measured

## Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Bioaccumulation: No relevant data found.

#### 12.4 Mobility in soil

#### Modified alcohol

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 2 Estimated.

#### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

No relevant data found.

#### 12.5 Results of PBT and vPvB assessment

### **Modified alcohol**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

#### 12.6 Other adverse effects

## **Modified alcohol**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

No relevant data found.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

#### SECTION 14: TRANSPORT INFORMATION

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#### Classification for ROAD and Rail transport (ADR/RID):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 Packing group Not applicable

**14.5** Environmental hazards Not considered environmentally hazardous based on

available data.

**14.6** Special precautions for user No data available.

#### Classification for SEA transport (IMO-IMDG):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 Packing group Not applicable

**14.5** Environmental hazards Not considered as marine pollutant based on available data.

14.6 Special precautions for user No data available.

14.7 Transport in bulk according

to Annex I or II of MARPOL 73/78 and the IBC or IGC

Consult IMO regulations before transporting ocean bulk

Code

# Classification for AIR transport (IATA/ICAO):

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable
 14.4 Packing group Not applicable
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# **SECTION 15: REGULATORY INFORMATION**

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

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#### REACh Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH).. The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

# Restrictions on the manufacture, placing on the market and use:

The following substance/s contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product have to comply with the restrictions placed upon it by the aforementioned provision.

CAS-No.: Name: Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

# 15.2 Chemical safety assessment

Not applicable

# **SECTION 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

Asp. Tox. - 1 - H304 - Calculation method

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Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this

document.

# Legend

Dow IHG	Dow Industrial Hygiene Guideline
TWA	Time weighted average

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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DOW CHEMICAL COMPANY LIMITED urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.