

Safety Data Sheet (SDS) Chemtane 2 Concentrate

Creation date: 01.30.2012
Revision date: 02.28.2023

Version 3.2

SP / E

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

1.1. Product identifier

Product name

Chemtane 2 Concentrate / Alkane Hydrocarbons (C₄-C₈)
Formulated by Chemtane Energy LLC

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

Relevant identified uses” Industrial and professional.
Uses advised against: Consumer use.

1.3. Details of the supplier of the safety data sheet (SDS)

Company identification

Chemtane Energy LLC, 10106
Highway 63, Moss Point, MS 39562
Phone: (281) 573-1100; Fax (281) 573-1102
Contact in USA: Raymond Davis 281 382-1062; 888-536-4692
e-mail address rdavis@chemtane2.com

Customer Service: customerservice@chemtane2.com

Website: <http://www.chemtaneenergy.com>

Person responsible for placing on market:
Raymond Davis
10106 Highway 63
Moss Point, MS 39562

1.4. Emergency telephone numbers

Emergency Numbers 24/7
Domestic Emergencies
CHEMTREC#11781 – 800-424-9300
24 hrs – (703)527-3887
International Emergencies
PERS#11489-801-629-0667

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification acc. Regulation (EC) No 1272/2008/EC (CLP/GHS)

Flammable liquid: 2-Highly flammable liquid and vapor
Eye Irritation, Category 2B
Aspiration hazard: Aspiration Toxicity. 1 – May be fatal if swallowed and enters airways.
Specific target organ toxicity - Single: STOT SE 3 – May cause drowsiness or dizziness.
Aquatic Chronic 2 - Hazardous to the aquatic environment –
Toxic to aquatic life with long lasting effects

2.2. Label elements -Labeling Pictograms



- Signal word

Danger

- Hazard Statements

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters Airways
H320	Cause eye irritation
H336	May cause drowsiness or dizziness.

- Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240+P243	Ground/bond container and receiving equipment. Take precautionary measures against static discharge
P273	Avoid release to the environment.
P280	Wear protective gloves and eye / face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P403+P235	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P370+P378	In Case of Fire: Use Foam, carbon dioxide or dry powder for extinction.
P501	Dispose of product/container in accordance with all applicable regulations.

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SECTION 3: Composition/information on ingredients

Substance / Mixture: Mixture.

3.1. Substances

Name	EC No.	CAS No.	Classification
<i>n</i> -Pentane	203-692-4	109-66-0	50-75 %
Isohexanes	232-443-2	8030-30-6	1-5 %
Methanol	200-659-6	67-56-1	0.05 %
Soltrol	70024-92-9	68551-16-6	1-5 %
Cyclopentane	206-016-6	287-92-3	1-5 %
2-Methylpentane	203-523-4	107-83-5	1-2 %
Isopentane	201-142-8	78-78-4	1-5 %
2,3-Dimethylbutane	201-193-6	79-29-8	1-2 %

Note: the concentration of methanol is <0.1 % & warning labels not required.

REACH Registration number: Not Required

Contains no other components or impurities which will influence the classification of the product.

3.2. Mixtures

See 3.1 above for composition.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapor concentrations, remove victim to fresh air. If victim experiences continued breathing difficulties, keep patient warm and at rest, and seek medical attention. If breathing stops, begin artificial respiration and seek immediate medical attention.

Skin contact

If this product comes into contact with the skin, wash with soap and water. Seek medical attention if irritation persists. Remove and wash contaminated clothing before re-use.

Accidental eye contact

If this product comes into contact with the eyes, flush with large quantities of water for several minutes, while gently holding the eyelids open. Seek medical attention if irritation persists.

Ingestion

If this product is swallowed, DO NOT INDUCE VOMITING. Give small quantities (<250 ml) of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention

Notes to doctor/physician

Aspiration of solvent may cause chemical pneumonitis.

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

Inhalation: May cause dizziness and drowsiness if inhaled and high concentrations may result in central nervous system depression, and loss of consciousness.

Ingestion: Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, may be aspirated into the lungs, with a risk of chemical pneumonitis.

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

Get immediate medical advice/attention.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fires: Use foam, carbon dioxide or dry powder extinguisher.

Large fires: Use foam to extinguish fires. Water spray should not be used, as pentane is lighter than water and may form pools of burning liquid on top of water. Keep adjacent containers cool using water spray.

5.2. Special hazards arising from the substance or Mixture

Product is extremely flammable. Remove all sources of ignition. Vapours are heavier than air and may travel considerable distances to a source of ignition and flash back. Vapour/air mixtures may be explosive. Electrostatic discharges may cause fire and/or explosion.

5.3. Advice for fire-fighters

Specific methods

Wear positive pressure Self-Contained Breathing Apparatus. If possible, stop flow of product. Move container away or cool with water spray from a protected position. If leaking do not extinguish a flame unless absolutely necessary.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all ignition sources and evacuate unnecessary personnel from the area. Ventilate the area if possible.

Wear suitable protective clothing including solvent resistant gloves and coveralls. If vapour concentrations are high, respiratory protective equipment may be required. See section 8 for more information.

6.2. Environmental precautions

Prevent entry into sewers and watercourses. If product enters sewers or watercourses, inform the appropriate environmental authorities.

6.3. Methods and material for containment and Cleaning up

Ventilate area. Keep away from ignition sources (including static discharges). Prevent evaporation by covering with foam. Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor.

6.4. Reference to other sections

See also sections 8 for personal protection details.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Use only in well ventilated areas. Chemtane 2 is highly flammable. Avoid contact with all ignition sources, including hot surfaces. Take precautions to avoid electrostatic discharges, such as grounding of containers and equipment, and restricting flow rates. Vapors are heavier than air and may accumulate in low lying areas and below ground areas such as ducts and sewers.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well ventilated area, away from all ignition sources. If stored in drums, keep out of direct sunlight.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit value

Value type	value	Note
Great Britain - LTEL	600 ppm	EH 40/07

OSHA, NIOSH

Product/ingredient name	Type	Exposure Long Term	Value ppm	Value mg/m ³	Effect
n-pentane	OSHA NIOSH	Inhalation	1000	3000	Sys
Isopentane	OSHA NIOSH	Inhalation	1000	3000	Sys
methanol	OSHA NIOSH	Inhalation	200	-	Sys
Soltrol 10	OSHA NIOSH	Inhalation	300	Consumer	Sys
2-methylpentane	OSHA NIOSH	Inhalation	1000	3000	Sys

8.2. Exposure controls

Ensure there is sufficient ventilation of the area. General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required. Other special precautions such as respiratory masks or environmental containment devices may be required in extreme cases.

Respiratory protection

Use only in well ventilated area. If high exposure levels are likely, then suitable respiratory protection will be required. Very high vapor concentrations may result in oxygen displacement and self-contained breathing apparatus or airline may be required.

Hand protection

Wear suitable chemical resistant gloves recommended for use with hydrocarbon solvent. Nitrile gloves may be suitable, but glove manufacturers' specifications should always be checked first. Natural rubber gloves are not suitable. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Wear suitable eye protection, safety glasses or goggles, when handling this product.

Skin protection

Aprons or coveralls made of fire retardant material are recommended. These should be changed after use or if contaminated. Wash before re-use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical Properties

General information

Appearance/Colour: Light Green liquid.
Odour: Mild
Odour threshold:
 Odour threshold is subjective and inadequate to warn for over exposure.
Melting point: -135°C
Boiling point: 37°C
Flash point: -40 °C
Flammability range: 1,1 % (V) – 7,8% (V)
Vapour Pressure 37,8 °C: 1,08 bar
Relative density, gas: 2,48
Solubility in water: 39 mg/l
Partition coefficient: n-octanol/water: No data available.
Autoignition temperature: 260 °C
Relative density, liquid: 0,601 – 0,651
Viscosity 0,234 cp at 20 °C
Explosion limits: LEL 1% UEL 6%

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from sources of ignition.

10.5. Incompatible materials

This product is incompatible with strong oxidizing agents, strong acids and bases, and selected amines.

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Value: LD50

Species: Rat

Value in non-standard unit: > 2.000 mg/kg

Acute inhalation toxicity

Value: LC50

Species: Rat

Value in non-standard unit: > 25,3 mg/l

Harmful when inhaled in high concentrations or ingested. Product may cause dizziness and drowsiness if inhaled, and high concentrations may result in central nervous system depression, and loss of consciousness. Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, may be aspirated into the lungs, with a risk of chemical pneumonitis.

Irritation: Can be irritating to the eye, may cause redness.

Corrosivity: Not corrosive

Sensitisation: Not known to be a sensitizer

Repeated dose toxicity: Prolonged or repeated contact of this product will result in defatting of the skin, causing dryness and cracking.

Carcinogenicity: Not expected to be carcinogenic.

Mutagenicity: Not expected to be mutagenic

Toxicity for reproduction: Not expected to be toxic to reproduction.

Route of exposure: Inhalation and ingestion

Symptoms related to the physical, chemical and toxicological characteristics:

Product may cause dizziness and drowsiness if inhaled and high concentrations may result in central nervous system depression, and loss of consciousness. Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, Product may be aspirated into the lungs, with a risk of chemical pneumonitis.

SECTION 12: Ecological information

12.1. Toxicity

EC50 (*Oncorhynchus mykiss*, rainbow trout) 4.26 mg/l (96 hour)

EC50 (*Daphnia magna*) 2.7 mg/l (48 hour)

May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Product is readily biodegradable in aquatic systems, however, in view of its high evaporation rate, product is expected to volatilize rapidly from water sources into the atmosphere, where it will be degraded by photochemical reaction.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

None

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover and recycle product if possible. If recovery and recycling are not possible, n-pentane may be disposed of by incineration.

Please follow all local, regional, and national and international laws.

SECTION 14: Transport information ADR/RID

14.1. UN number 1993

14.2. UN proper shipping name
Flammable Liquids, n.o.s.

14.3. Transport hazard class(es)
Class: 3
Classification Code: F1
Emergency Action Code: 3YE
Tunnel code: (D/E)

14.4. Packing group PG II

14.5. Environmental hazards
Environmentally Hazardous.

14.6. Special precautions for user
None.

IMDG

14.1. UN number 1993

14.2. UN proper shipping name
Flammable Liquids, n.o.s.

14.3. Transport hazard class(es)
Class: 3 (FLAMMABLE LIQUIDS)

EmS: F-E,S-D

14.4. Packing group PG II

14.5. Environmental hazards
Environmentally Hazardous

14.6. Special precautions for user
None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Substance name: PENTANE (ALL ISOMERS)
Ship type required: 3
Pollution category: Y

IATA

14.1. UN number 1993

14.2. UN proper shipping name
Flammable Liquids, n.o.s.

14.3. Transport hazard class(es) Class: 3
Packing group PG II

14.4. Packing group PG II

14.5. Environmental hazards
Environmentally Hazardous.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Seveso Directive 96/82/EC: Covered.

15.2. Chemical safety assessment
CSA has been carried out

SECTION 16: Other information

Ensure all national/local regulations are observed.

Advice

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Details given in this document are believed to be correct at the time of going to press.

Further information

Note:

When using this document care should be taken, as the decimal sign and its position complies with rules for the structure and drafting of international standards, and is a comma on the line.

As an example, 2,000 is two (to three decimal places) and not two thousand, whilst 1.000 is one thousand and not one (to three decimal places).

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