SAFETY DATA SHEET



Cyclopentane

Version 1.5

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SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Cvclopentane 1087361, 1084274, 1026800, 1026802, 1028765, 1026799, Material 1026798, 1026797 Use : Solvent Company : Chevron Phillips Chemical Company LP **Specialty Chemicals** 10001 Six Pines Drive The Woodlands, TX 77380 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) SDS Number:100000014138 1/18

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Revision Date 2022-08-17 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com **SECTION 2: Hazards identification** Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard. Classification : Flammable liquids, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system Aspiration hazard, Category 1 Labeling Symbol(s) Signal Word Danger : Hazard Statements : H225: Highly flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H336: May cause drowsiness or dizziness. Draventian. Precautionary Statements

ments	:	Prever	ition:
		P210	Keep away from heat/ sparks/ open flames/ hot
		surface	es. No smoking.
		P233	Keep container tightly closed.
		P240	Ground/bond container and receiving equipment.
		P241	Use explosion-proof electrical/ ventilating/ lighting/

P243

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Take precautionary measures against static discharge.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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	shower. P304 + P340 + air and keep co CENTER/ docto P331 Do NO P370 + P378 alcohol-resistan Storage: P403 + P233 tightly closed. P403 + P235 Disposal:	or. P353 IF ON a contaminated cl P312 IF INH/ mfortable for bre or if you feel unw T induce vomitin In case of fire: In case of fire: Store in a well-	g. Use dry sand, dry chemical or
Carcinogenicity:			
IARC			ent at levels greater than or bable, possible or confirmed
NTP	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
CTION 3: Composition/info	 Pentamethylene Cyclopentane 9 	e ^P ure Grade	
Molecular formula	: C5H10		
Component			Mainht 0/
Component Cyclopentane Isopentane	CAS-N 287-92 78-78-4	-3	Weight % 95 - 100 1 - 5
Cyclopentane	287-92 78-78-4	-3	95 - 100
Cyclopentane Isopentane	287-92 78-78-4 es : Move out of dar sheet to the doo	-3 4 ngerous area. S ctor in attendanc	95 - 100
Cyclopentane Isopentane CTION 4: First aid measure	287-92 78-78-4 es : Move out of dar sheet to the doo serious, potenti : Consult a physi	-3 4 ngerous area. S ctor in attendanc ally fatal pneum	95 - 100 1 - 5 how this material safety data e. Material may produce a
Cyclopentane Isopentane CTION 4: First aid measure General advice	287-92 78-78-4	-3 4 ngerous area. S ctor in attendanc ally fatal pneum ician after signifi ry position and s	95 - 100 1 - 5 how this material safety data e. Material may produce a onia if swallowed or vomited. cant exposure. If unconscious,
Cyclopentane Isopentane CTION 4: First aid measure General advice If inhaled	287-92 78-78-2 es : Move out of dar sheet to the doo serious, potenti : Consult a physi place in recover : If on skin, rinse : Flush eyes with	-3 4 ngerous area. S ctor in attendanc ally fatal pneum ician after signifi ry position and s well with water.	95 - 100 1 - 5 how this material safety data e. Material may produce a onia if swallowed or vomited. cant exposure. If unconscious, eek medical advice.

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		rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
TION 5: Firefighting measu	res	
Flash point	:	-35°C (-31°F) Method: Tag closed cup
Autoignition temperature	:	361°C (682°F) estimated
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	:	Hydrocarbons. Carbon oxides.
TION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible
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Handling

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absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage

Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Use	÷	Solvent

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Basis	Value	Control parameters	Note
ACGIH	TWA	600 ppm,	
OSHA Z-1-A	TWA	600 ppm, 1,720 mg/m3	
ACGIH	TWA	1,000 ppm,	
	ACGIH OSHA Z-1-A	ACGIH TWA OSHA Z-1-A TWA	ACGIH TWA 600 ppm, OSHA Z-1-A TWA 600 ppm, 1,720 mg/m3

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection

: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under

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	normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air- purifying respirators may not provide adequate protection.
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
TION 9: Physical and cher	nical properties
Information on basic phys	sical and chemical properties
Appearance Form Physical state Color Odor	: liquid : liquid : Colorless : Mild
Safety data	
Flash point	: -35°C (-31°F) Method: Tag closed cup
Lower explosion limit	: 1.4 %(V)
Upper explosion limit	: 9.4 %(V)
Oxidizing properties	: No
Autoignition temperature	: 361°C (682°F) estimated
Molecular formula	: C5H10
Molecular weight	: 70.15 g/mol
рН	: Not applicable
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Freezing point	: No data available
Pour point	No data available
Boiling point/boiling range	: 49°C (120°F)
Vapor pressure	: 9.91 PSI at 37.8°C (100.0°F)
Relative density	: 0.74 at 16 °C (61 °F)
Density	: 0.74 G/ML
Water solubility	: insoluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, dynamic	: 0.44 cP
Relative vapor density	: 2.42 (Air = 1.0)
Evaporation rate	: No data available
Percent volatile	: > 99 %
CTION 10: Stability and reacti	vity
Reactivity	: Stable under recommended storage conditions.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
••••••	: May react with oxygen and strong oxidizing agents, such as
Materials to avoid	
	 chlorates, nitrates, peroxides, etc. Hydrocarbons Carbon oxides

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Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological inf	ormation
Acute oral toxicity	
Cyclopentane	: LD50: > 5,000 mg/kg Species: Rat
Isopentane	LD50: > 2,000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401 Information given is based on data obtained from similar substances.
Acute inhalation toxicity	
Cyclopentane	: LC50: > 25.3 mg/l Exposure time: 4 h Species: Rat Test atmosphere: vapor Method: OECD Test Guideline 403
Isopentane	LC50: > 25.3 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
Acute dermal toxicity	
Cyclopentane	: No data available
Skin irritation	
Cyclopentane	: No skin irritation
Isopentane	No skin irritation Information given is based on data obtained from similar substances.
Eye irritation Cyclopentane	: No eye irritation Information given is based on data obtained from similar substances.
Isopentane	No eye irritation Information given is based on data obtained from similar substances.
Sensitization	
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Cyclopentane	 Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Isopentane	Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
Cyclopentane	 Species: Rat, males Sex: males Dose: 0, 0.22, 1.12, 5.29 mg/l Exposure time: 28 d Number of exposures: 6 h/d NOEL: 1.12 mg/l Lowest observable effect level: 5.29 mg/l Method: OECD Test Guideline 412 Species: Rat, females Sex: females Dose: 0, 0.22, 1.12, 5.29 mg/l Exposure time: 28 d Number of exposures: 6 h/d NOEL: 5.29 mg/l Lowest observable effect level: > 5.29 mg/l
	Method: OECD Test Guideline 412 Species: Rat, male and female Sex: male and female Dose: 5, 10, 30 mg/l Exposure time: 90 d Number of exposures: 6 h/d NOEL: 30 mg/l Method: OECD Test Guideline 413 No adverse effects expected
Isopentane	Species: Rat, male and female Sex: male and female Application Route: Inhalation Dose: 668, 2220, 6646 ppm Exposure time: 13 wk Number of exposures: 6 h/d, 5 d/wk NOEL: > 2220 ppm Lowest observable effect level: > = 6646 ppm Method: OECD Guideline 413 Target Organs: Kidney Information given is based on data obtained from similar substances.
Genotoxicity in vitro	
Cyclopentane	: Test Type: Modified Ames test Concentration: 1250 microgram/plate Metabolic activation: with and without metabolic activation Result: negative
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	Test Type: Mouse lymphoma assay Concentration: 200 microgram/mililiter Metabolic activation: with and without metabolic activation Result: negative
Isopentane	Test Type: Ames test Concentration: 1, 2, 5, 8, 10% Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Ames test Concentration: 1, 2, 5, 8, 10, 25, 50% Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: In vitro mammalian cell gene mutation test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Remarks: Information given is based on data obtained from similar substances.
Genotoxicity in vivo	
Cyclopentane	: Test Type: Micronucleus test Species: Mouse Route of Application: inhalation (vapor) Dose: 10,000 ppm Result: negative
Isopentane	Test Type: In vivo micronucleus test Species: Rat Cell type: Bone marrow Route of Application: inhalation (vapor) Exposure time: 13 wk Dose: 5000, 10,000, 20,000 mg/m3 Method: Directive 67/548/EEC, Annex V, B.12. Remarks: Information given is based on data obtained from similar substances.
Reproductive toxicity	
Cyclopentane	 Species: Rat Sex: males Application Route: Inhalation Dose: 0, 500, 2000, 7000 ppm Number of exposures: 6 h/day NOAEL Parent: 2000 ppm
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	NOAEL F1: 2000 ppm NOAEL F2: 2000 ppm Reduced fetal weight. Information given is based on data obtained from similar substances.
Isopentane	Species: Rat Sex: male and female Application Route: inhalation (vapor) Dose: 0, 500, 2000, 7000 ppm Number of exposures: 6 h/d 5 d/wk Method: OECD Test Guideline 416 NOAEL Parent: 7000 ppm NOAEL F1: 2000 ppm NOAEL F2: 2000 ppm Information given is based on data obtained from similar substances. Reduced fetal weight.
Developmental Toxicity	
Cyclopentane	: Species: Rat Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg Exposure time: GD 6 - 15 Number of exposures: daily NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 1,000 mg/kg Information given is based on data obtained from similar substances.
Isopentane	Species: Rat Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Exposure time: GD 6-15 Number of exposures: daily Method: OECD Guideline 414 NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 1,000 mg/kg Information given is based on data obtained from similar substances.
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Cyclopentane	
Version 1.5	Revision Date 2022-08-1 Species: Rat Application Route: Inhalation Dose: 0, 500, 2000, 7000 ppm Exposure time: GD 6-15 Number of exposures: 5 d/wk Method: OECD Guideline 414 NOAEL Teratogenicity: 7000 ppm NOAEL Maternal: 500 - 2000 ppm Information given is based on data obtained from similar substances.
	Species: Rabbit Application Route: Inhalation Dose: 0, 500, 2000, 7000 ppm Exposure time: GD 6-18 Method: OECD Guideline 414 NOAEL Teratogenicity: 7000 ppm NOAEL Maternal: 7000 ppm Information given is based on data obtained from similar substances.
Cyclopentane Aspiration toxicity	: May be fatal if swallowed and enters airways.
CMR effects	
Isopentane	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
Cyclopentane Further information	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
ECTION 12: Ecological information	ation
Toxicity to fish	
Cyclopentane	: LL50: 29.3 mg/l Exposure time: 96 h Species: Fish Method: QSAR modeled data
Isopentane	LC50: 4.26 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
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Cyclopentane	:	 EC50: 2.3 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Information given is based on data obtained from similar substances. 	
Isopentane		EC50: 2.3 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202	
Toxicity to algae			
Cyclopentane	:	EC50: 2.04 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.	
Isopentane		EC50: 7.51 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.	
Biodegradability	:	Expected to be ultimately biodegradable	
Elimination information (persist	ten	ce and degradability)	
Bioaccumulation			
Cyclopentane	:	Accumulation in aquatic organisms is unlikely.	
Isopentane	:	Accumulation in aquatic organisms is unlikely.	
Mobility			
Cyclopentane	:	No data available	
Isopentane	:	No data available	
Results of PBT assessment Isopentane	:	Non-classified PBT substance, Non-classified vPvB substanc	
Additional ecological information Ecotoxicology Assessment	:	Harmful to aquatic life with long lasting effects.	
Short-term (acute) aquatic		Harmful to aquatic life.	

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hazard Long-term (chronic) aquatic hazard	: Harmful to aquatic life with long lasting effects.
ECTION 13: Disposal considera	ations
The information in this SDS p	ertains only to the product as shipped.
may meet the criteria of a haz other State and local regulatio regulated components may be	burpose or recycle if possible. This material, if it must be discarded, cardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
ECTION 14: Transport informat	tion
	shown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
Goods Regulations for additio etc.) Therefore, the informatic	estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
US DOT (UNITED STATES D UN1146, CYCLOPENTAN	DEPARTMENT OF TRANSPORTATION) IE, 3, II
IMO / IMDG (INTERNATIONA UN1146, CYCLOPENTAN	AL MARITIME DANGEROUS GOODS) IE, 3, II, (-35 °C c.c.)
UN1146, CYCLOPENTAN	IE, 3, II, (-35 °C c.c.)
UN1146, CYCLOPENTAN IATA (INTERNATIONAL AIR UN1146, CYCLOPENTAN	IE, 3, II, (-35 °C c.c.) TRANSPORT ASSOCIATION) IE, 3, II NGEROUS GOODS BY ROAD (EUROPE))
UN1146, CYCLOPENTAN IATA (INTERNATIONAL AIR UN1146, CYCLOPENTAN ADR (AGREEMENT ON DAN UN1146, CYCLOPENTAN	IE, 3, II, (-35 °C c.c.) TRANSPORT ASSOCIATION) IE, 3, II NGEROUS GOODS BY ROAD (EUROPE)) IE, 3, II, (D/E) ERNING THE INTERNATIONAL TRANSPORT OF COPE))
UN1146, CYCLOPENTAN IATA (INTERNATIONAL AIR UN1146, CYCLOPENTAN ADR (AGREEMENT ON DAN UN1146, CYCLOPENTAN RID (REGULATIONS CONCE DANGEROUS GOODS (EUR 33,UN1146,CYCLOPENTA	IE, 3, II, (-35 °C c.c.) TRANSPORT ASSOCIATION) IE, 3, II NGEROUS GOODS BY ROAD (EUROPE)) IE, 3, II, (D/E) ERNING THE INTERNATIONAL TRANSPORT OF ROPE)) INE, 3, II IENT CONCERNING THE INTERNATIONAL CARRIAGE

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Maritime transport in bulk according to IMO instruments

National legislation	
SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Aspiration hazard Specific target organ toxicity (single or repeated exposure)
CERCLA Reportable Quantity	: Calculated RQ exceeds reasonably attainable upper limit. Benzene
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold Planning Quantity	: This material does not contain any components with a section 302 EHS TPQ.
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.
SARA 313 Components	: 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 Air Act	
Potential Class	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).
This product does not conta Act Section 112 (40 CFR 61	in any hazardous air pollutants (HAP), as defined by the U.S. Clean).
The following chemical(s) ar Release Prevention (40 CFF	re listed under the U.S. Clean Air Act Section 112(r) for Accidental R 68.130, Subpart F):

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:	Isopentane - 78-78-4	
	sted under the U.S. Clean Air	Act Section 111 SOCMI Intermediate
Final VOC's (40 CFR 60.489): :	Isopentane - 78-78-4	
US State Regulations		
Pennsylvania Right To Know	0	
:	Cyclopentane - 287-92-3 Isopentane - 78-78-4	
California Prop. 65 : Components		
	Benzene	71-43-2
	[listed below], which is [are]	n expose you to chemicals including known to the State of California to reproductive harm. For more Warnings.ca.gov.
	n-hexane	110-54-3
	Toluene	108-88-3 71-43-2
	Benzene	11-43-2
Notification status Europe REACH	: A substance or sub	stances in this product is not
	registered or notifie manufacture of this	ed to be registered. Importation or product is still permitted provided eed the REACH minimum threshold
Switzerland CH INV		regulated substances. r in compliance with the inventory
United States of America (USA)	: On or in compliance	e with the active portion of the
TSCA Other AIIC	TSCA inventory	r in compliance with the inventory
New Zealand NZIoC	: On the inventory, o	r in compliance with the inventory
Japan ENCS Korea KECI	: A substance(s) in the notified to be registed by CPChem accord	r in compliance with the inventory his product was not registered, ered, or exempted from registration ling to K-REACH regulations. ufacture of this product is still
		the Korean Importer of Record has
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Philippines PICCS Taiwan TCSI China IECSC	 themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s). On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
SECTION 16: Other informati	on
NFPA Classification	: Health Hazard: 1 Fire Hazard: 3 Reactivity Hazard: 0
Further information	
Legacy SDS Number	: 26590

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effe
	Substances		Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupation
	Substances List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of
			Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect
			Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentra
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substan
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recover
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Cyclopentane

SAFETY DATA SHEET

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			Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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