

n-Pentane

Version 1.3

Revision Date 2012-07-30

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	nmable liquids, Category 2 cific target organ systemic toxicity - single exposure, egory 3 iration hazard, Category 1 te aquatic toxicity, Category 2 onic aquatic toxicity, Category 2
HS-Labeling	
Number:100000014541	1/12

n-Pentane	MATERIAL SAFETY DATA SHEE
Version 1.3	Revision Date 2012-07-3
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. H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P243: Take precautionary measures against static discharge. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331: Do NOT induce vomiting. P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P391: Collect spillage. Storage: P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved waste disposal plant.
Carcinogenicity:	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	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.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
SECTION 3: Composition/info	rmation on ingredients
Synonyms	 n-Pentane (Commercial Grade) n-Pentane (greater than 95%) n-Pentane (Pure Grade) Pentane, normal, 95% Pentane Amyl hydride
Synonyms Molecular formula	n-Pentane (greater than 95%) n-Pentane (Pure Grade) Pentane, normal, 95% Pentane
	n-Pentane (greater than 95%) n-Pentane (Pure Grade) Pentane, normal, 95% Pentane Amyl hydride

n-Pentane		MATERIAL SAFETY DATA SHEE		
Version 1.3		Revision Date 2012-07-3		
n-Pentane		109-66-0 95 - 100		
SECTION 4: First aid measures				
General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.		
If inhaled	:	Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.		
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.		
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.		
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.		
ECTION 5: Firefighting measu	res			
Flash point	:	< -40 °C (< -40 °F) Method: Tag closed cup		
Autoignition temperature	:	242.8 °C (469.0 °F) estimated		
Suitable extinguishing media	:	Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam.		
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 fire fighting 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 an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which		
ISDS Number:100000014541		3/12		

Pentane	MATERIAL SAFETY DATA SHEE
ersion 1.3	Revision Date 2012-07-3
	might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	: Carbon oxides.
CTION 6: Accidental release	measures
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 absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
CTION 7: Handling and stora	ge
Handling	
Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. 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. Container may be opened only under exhaust ventilation hood. 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 an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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.
CTION 8: Exposure controls/	personal protection
Ingredients with workplace	control parameters

n-Pentane

Version 1.3

US

Revision Date 2012-07-30

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Ingredients	Basis	Value	Control parameters	Note
n-Pentane	OSHA Z-1	TWA	1,000 ppm, 2,950 mg/m3	(b),
	OSHA Z-1-A	TWA	600 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	750 ppm, 2,250 mg/m3	
	ACGIH	TWA	600 ppm,	

(b) The value in mg/m3 is approximate.

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 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, 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.

SECTION 9: Physical and chemical properties

Appearance	
Form	: Liquid
Physical state	: Liquid
Color	: Colorless
Odor	: Strong gasoline

Revision Date 2012-07-30

n-Pentane

Version 1.3

Safety data Flash point : < -40 °C (< -40 °F) Method: Tag closed cup : 1.42 %(V) Lower explosion limit Upper explosion limit : 7.8 %(V) Oxidizing properties : no : 242.8 °C (469.0 °F) Autoignition temperature estimated Molecular formula : C5H12 Molecular Weight : 72.17 g/mol pН : Not applicable Pour point : No data available Boiling point/boiling range : 36 °C (97 °F) estimated Vapor pressure : 513.00 MMHG at 25 °C (77 °F) Relative density : 0.63, 15.6 °C(60.1 °F) : 0.63 G/ML Density Water solubility : Negligible Partition coefficient: n-: No data available octanol/water Viscosity, dynamic : 0.223 cP Relative vapor density : 2.48 (Air = 1.0)Evaporation rate : 1 **SECTION 10: Stability and reactivity** Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Possibility of hazardous reactions Conditions to avoid : Heat, sparks, fire, and oxidizing agents. Materials to avoid : May react with oxygen and strong oxidizing agents, such as MSDS Number:100000014541 6/12

Pentane	MATERIAL SAFETY DATA SHEE
ersion 1.3	Revision Date 2012-07-3
	chlorates, nitrates, peroxides, etc.
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological info	rmation
Acute oral toxicity	
n-Pentane	: LD50: > 2,000 mg/kg Species: rat
Acute inhalation toxicity	
n-Pentane	: LC50: > 18 mg/l Exposure time: 4 h Species: rat Test atmosphere: dust/mist
Acute dermal toxicity	
n-Pentane	: LD50: unknown
n-Pentane Skin irritation	: Non persistent irritation.
n-Pentane Eye irritation	: Non persistent irritation.
Sensitization	
n-Pentane	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
n-Pentane	: Species: rat Application Route: Inhalation Dose: 0, 3000 ppm Exposure time: 16 wk Number of exposures: 12 h/d, 7 d/wk NOEL: 3,000 ppm
	Species: rat Application Route: Inhalation Dose: 0, 1000, 3000, 10000 ppm Exposure time: 2 wk Number of exposures: 6 h/d, 5 d/wk NOEL: 1,000 ppm
Reproductive toxicity	
n-Pentane	: Species: rat
	Sex: male Application Route: Inhalation Dose: 0, 5, 10, 20 mg/l Exposure time: 13 wk Test period: 6hrs/day, 5 days/wk
SDS Number:100000014541	7/12

Pentane			
ersion 1.3	Revision Date 2012-07-3		
	NOAEL Parent: 20 mg/l no abnormalities observed		
	Species: rat Sex: female Application Route: Inhalation Dose: 0, 5, 10, 20 mg/l Exposure time: 13 wk Test period: 6hrs/day, 5days/wk NOAEL Parent: 20 mg/l no abnormalities observed		
Teratogenicity			
n-Pentane	 Species: rat Application Route: Inhalation Dose: 0, 1000, 3000, 10000 ppm Number of exposures: 6 h/d Test period: GD 6-15 NOAEL Teratogenicity: 10,000 ppm 		
n-Pentane Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.		
n-Pentane Further information	: Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.		
CTION 12: Ecological inform	ation		
Toxicity to fish			
	: LC50: 4.3 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)		
n-Pentane	Exposure time: 96 h		
n-Pentane Toxicity to daphnia and otl	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)		
	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)		
Toxicity to daphnia and ot	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) her aquatic invertebrates : EC50: 2.7 mg/l Exposure time: 48 h		
Toxicity to daphnia and otl n-Pentane	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) her aquatic invertebrates : EC50: 2.7 mg/l Exposure time: 48 h		

n-Pentane	MATERIAL SAFETY DATA SHEE
Version 1.3	Revision Date 2012-07-3
Bioaccumulation	
n-Pentane	: Accumulation in aquatic organisms is unlikely.
Biodegradability	
n-Pentane	: This material is expected to be readily biodegradable.
Additional ecological information	 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.
SECTION 13: Disposal consid	lerations
The information in this MSI	DS pertains only to the product as shipped.
may meet the criteria of a l other State and local regula regulated components may	ed purpose or recycle if possible. This material, if it must be discarded, nazardous waste as defined by US EPA under RCRA (40 CFR 261) or ations. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is waste, 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.
SECTION 14: Transport inform	nation
	s shown here are for bulk shipments only, and may not apply to ackages (see regulatory definition).
Goods Regulations for add etc.) Therefore, the inform	mestic or international mode-specific and quantity-specific Dangerous litional shipping description requirements (e.g., technical name or names, ation shown here, may not always agree with the bill of lading shipping . Flashpoints for the material may vary slightly between the MSDS and
US DOT (UNITED STATE UN1265, PENTANES, 3	S DEPARTMENT OF TRANSPORTATION) 3, II
	DNAL MARITIME DANGEROUS GOODS) 3, II, (< -40 °C), MARINE POLLUTANT, (N-PENTANE)
IATA (INTERNATIONAL A UN1265, PENTANES, 3	AIR TRANSPORT ASSOCIATION) 3, II
	ANGEROUS GOODS BY ROAD (EUROPE))
ADR (AGREEMENT ON D	

n-Pentane

Version 1.3

Revision Date 2012-07-30

UN1265, PENTANES, 3, II, (D/E)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) UN1265, PENTANES, 3, II

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1265, PENTANES, 3, II

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

SECTION 15: Regulatory information National legislation SARA 311/312 Hazards : Fire Hazard Acute Health Hazard SARA 302 Threshold : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Planning Quantity SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. **Clean Air Act** Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Potential Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

US State Regulations Pennsylvania Right To Know : n-Pentane 109-66-0 New Jersey Right To Know : n-Pentane 109-66-0 MSDS Number:100000014541 10/12

			MATERIAL SAFETY DATA SHEET
n-Pentane			
Version 1.3			Revision Date 2012-07-30
California Prop. 65 Ingredients			ny chemicals known to the State th, or any other reproductive
Notification status Europe REACH United States of America US Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS China IECSC	S.TSCA : On the : On the	inventory, or in c inventory, or in c	the inventory compliance with the inventory
SECTION 16: Other information			
NFPA Classification	: Health Hazard: Fire Hazard: 4 Reactivity Haza		4
Further information			
Legacy MSDS Number	: E039		
previous versions. The information in this MSDS The information provided in the	S pertains only to the his Material Safety E belief at the date of i andling, use, proces idered a warranty or	e product as ship Data Sheet is cor ts publication. Th ssing, storage, tra quality specifica	rect to the best of our ne information given is designed ansportation, disposal and ation. The information relates
combination with any other m			
ACGIH American Cor		cronyms used in LD50	the safety data sheet Lethal Dose 50%
AICS Australia, Inve	entory of Chemical	LOAEL	Lowest Observed Adverse Effect
List	nestic Substances	NFPA	Level National Fire Protection Agency
NDSL Canada, Non- Substances L	-Domestic .ist	NIOSH	National Institute for Occupational Safety & Health
CNS Central Nervo		NTP	National Toxicology Program
/ISDS Number:100000014541		11/12	2

n-Pentane

Version 1.3

Revision Date 2012-07-30

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 Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery 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%		

MSDS Number:100000014541