# SAFETY DATA SHEET

Revision date 06-January-2022

1. Identification			
Product identifier			
Product Name	PENTANE, SPECTROSOLV (TM)		
Other means of identification			
Product Code(s)	SP783		
UN/ID no	UN1265		
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended use	No information available		
Restrictions on use	No information available		
Details of the supplier of the safety	data sheet		
Supplier AddressDistributorSpectrum Chemical Mfg. Corp.Distributed by:14422 South San Pedro St.VWR International CoGardena, CA 902482360 Argentia Road(310) 516-8000Mississauga, Ontario Canada L5N 5Z7 Telephone: 1-800-932-5000			
Emergency telephone number			
Emergency Telephone	Chemtrec 1-800-424-9300		

# 2. Hazard(s) identification

## **Classification**

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure)	Category 3
Aspiration hazard	Category 1
Flammable liquids	Category 2

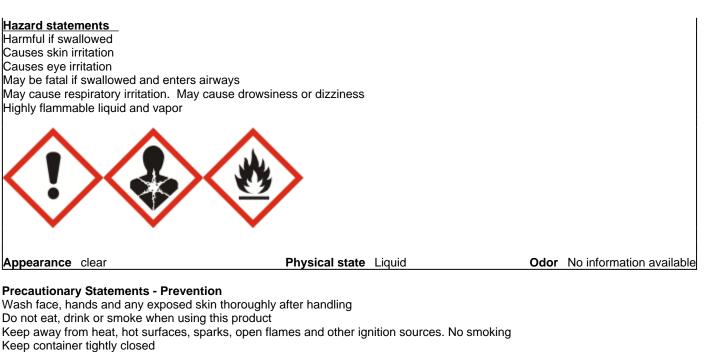
Hazards not otherwise classified (HNOC)

Not applicable

## Label elements



## Revision Number 2



Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating / lighting/ .? / equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/eye protection/face protection

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

Use only outdoors or in a well-ventilated area

## **Precautionary Statements - Response**

Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting Rinse mouth In case of fire: Use CO2, dry chemical, or foam to extinguish

## **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other information

May be harmful in contact with skin. May be harmful if inhaled. Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

## Substance

Chemical name	CAS No	Weight-%	Trade secret
Pentane	109-66-0	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

## **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is
	required.
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

# 5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazardous combustion products	Carbon dioxide (CO2).
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	yes.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

## Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

## Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from<br/>heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static<br/>electricity). Keep in properly labeled containers. Do not store near combustible materials.<br/>Keep in an area equipped with sprinklers. Store in accordance with the particular national<br/>regulations. Store in accordance with local regulations. Keep out of the reach of children.<br/>Store locked up. Store away from other materials.

# 8. Exposure controls/personal protection

## Control parameters

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Pentane	No data available	1000 ppm TWA	-
109-66-0		2950 mg/m³ TWA	

## Appropriate engineering controls

Engineering controls

## Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and of Physical state Appearance Color Odor Odor Odor threshold	<u>chemical properties</u> Liquid clear Colorless No information available No information available	
Property_	Values	Remarks • Method
pH	no data available	None known
Melting point / freezing point	-129 °C / -200.2 °F	None known
Boiling point / boiling range	36 °C / 96.8 °F	None known
Flash point	-49 °C / -56.2 °F	CC (closed cup)
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Vapor pressure	54	None known
Vapor density	2.5	None known
Relative density	0.63	None known
Water solubility	Practically insoluble in water	None known
Solubility(ies)	Miscible with alcohol	None known
	Miscible in Chloroform	
	Miscible with Acetone	
	Miscible in Benzene	
	Soluble in Carbon tetrachloride	
Partition coefficient	No data available	None known
Autoignition temperature	260 °C / 500 °F	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

## Information on likely routes of exposure

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May be harmful if inhaled.
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes eye irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness

Acute toxicity

## Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Pentane 109-66-0	> 2000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 364 g/m³(Rat)4 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

and tearing of the eyes.

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Irritating to eyes.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.

STOT - single exposure STOT - repeated exposure Target organ effects	No information available. No information available. respiratory system, Eyes, Skin, central nervous system.
Aspiration hazard	May be fatal if swallowed and enters airways.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

Ecotoxicity	icity Toxic to aquatic life with long lasting effects.			
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Pentane	-	LC50: =11.59mg/L (96h,	-	EC50: =9.74mg/L (48h,
109-66-0		Pimephales promelas)		Daphnia magna)
	LC50: =9.87mg/l			_
		Oncorhynchus mykiss)		
		LC50: =9.99mg/L (96h,		
		Lepomis macrochirus)		

# Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

## **Component Information**

Chemical name	Partition coefficient
Pentane	3.39
109-66-0	

Other adverse effects

No information available.

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.	

# 14. Transport information

DOT

T4, TP1
arine Pollutant
Pentanes, 3, II

TDG	
UN-No:	UN1265
Proper Shipping Name:	Pentanes
Hazard class	3

Packing Group: Description:	II UN1265, Pentanes, 3, II
<u>MEX</u> UN-No Proper Shipping Name Hazard class Packing Group Description	UN1265 Pentanes 3 II UN1265, Pentanes, 3, II
<u>ICAO (air)</u> UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1265 Pentanes 3 II UN1265, Pentanes, 3, II
IATA UN number Proper Shipping Name: Transport hazard class(es) Packing group Description:	UN1265 Pentanes 3 II UN1265, Pentanes, 3, II
IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No Marine pollutant Description	UN1265 Pentanes 3 II F-E, S-D P UN1265, Pentanes, 3, II, Marine pollutant
<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Description:	UN1265 Pentanes 3 II F1 UN1265, Pentanes, 3, II, ENVIRONMENTALLY HAZARDOUS
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Description: Labels	UN1265 Pentanes 3 II F1 (D/E) UN1265, Pentanes, 3, II, ENVIRONMENTALLY HAZARDOUS 3
ADN UN/ID No Proper shipping name Transport hazard class(es) Packing Group Classification code Description Hazard label(s) Limited quantity (LQ) ventilation Equipment Requirements	UN1265 Pentanes 3 II F1 UN1265, Pentanes, 3, II, ENVIRONMENTALLY HAZARDOUS 3 1 L VE01 PP, EX, A

15. Regulatory information

#### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Pentane	1476	Present	Present
109-66-0			

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 2 Flammability 4 Instability 0 Physical and chemical properties -HMIS Health hazards 2 Flammability 4 Physical hazards 0 Personal protection X Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TŴĂ TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL Ceiling Maximum limit value Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization **Revision date** 06-January-2022

**Revision Note** Disclaimer

No information available.

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.

End of Safety Data Sheet