

Safety Data Sheet Revision Date: 12/12/16

www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name: 31482 / TX TPH Locator Mix

Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823

Phone#: 814-353-1300 **Fax#:** 814-353-1309

Emergency#: 800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)

Email: www.restek.com

Revision Number: 8

Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:







GHS Aspiration Hazard Category 1
Classification: Flammable Liquid Category 2

Hazardous to the aquatic environment - Chronic Category 2

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Signal Danger

Word:

GHS Hazard: Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

GHS

Precautions:

Safety Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Precautions: Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilation and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

First Aid IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

Measures: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Do NOT induce vomiting.

In case of fire: Use extinguishing media in section 5 for extinction.

Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single

No data available.

Exposure Target Organs:

Repeated

No data available.

Exposure Target Organs:

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS#	EINEC #	% Composition
Pentane	109-66-0	203-692-4	99.940000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to

prevent chemical from transferring to the uncontaminated eye. Get immediate medical

attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water

> or milk to dilute. Provide medical care provider with this SDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially

causing chemical pneumonitis that may be fatal.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing

> agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Water may be ineffective in fire fighting due the material (or component(s) low flash

point, low solvent density, and limited miscibility with water.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of

ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back Empty containers that retain product residue (liquid,

solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

Fire Fighting Methods and Protection:

Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a

safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Use water spray/fog for cooling.

Carbon dioxide, Carbon monoxide **Hazardous Combustion Products:**

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow

personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the

expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the Methods for Clean-up:

> environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Mildly irritating material. Avoid unnecessary exposure. Use

spark-proof tools and explosion-proof equipment Avoid contact with material. Ground and bond containers when transferring material Do not enter storage area unless adequately

ventilated

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s) closed. Keep away from heat, sparks, and flame Store in a cool place in original container and protect from sunlight Limit

quantity of material stored.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: ACGIH STEL ACGIH TLV-TWA **OSHA Exposure Chemical Name** CAS No. **IDLH** Limit Pentane 109-66-0 1500 ppm 600 ppm TWA (listed 1000 ppm TWA; **IDLH (10%** under Pentane, all 2950 mg/m3 TWA LEL) isomers) 600 ppm TWA; 1770 mg/m3 TWA

Personal Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used. Engineering controls must be designed to

meet the OSHA chemical specific standard in 29 CFR 1910.

Respiratory Protection: Respiratory protection will be required when handling this product. Use

respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Wear a NIOSH approved respirator if any exposure is possible. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant

the use of a respirator.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this

product. Do not wear contact lenses. Wear goggles and a Face shield

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other

protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and

water before eating, drinking, and when leaving work.

Medical Conditions Aggravated By Exposure: Eye disease Respiratory disease including asthma and bronchitis Skin disease

including eczema and sensitization

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:
Odor:
Colorless
Mild
Physical State:
Liquid

pH: No data available.
Vapor Pressure: No data available.
Vapor Density: 2.5 (air = 1)
Boiling Point: No data available.

Melting Point: <-50 °C **Flash Point:** -56

Flammability: Highly Flammable

Upper Flammable/Explosive Limit, % in air: 7.8 Lower Flammable/Explosive Limit, % in air: 1.4

Autoignition Temperature: 260 deg C

Decomposition Temperature:

Specific Gravity:

Evaporation Rate:

Odor Threshold:

Solubility:

Partition Coefficient: n-octanol in water:

No data available.

VOC % by weight: 0

Molecular Weight: No data available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid:

Materials to Avoid / Chemical Incompatiability:

Hazardous Decomposition Products:

No data available.

Strong oxidizing agents

No data available.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation Ingestion Skin contact Eye contact

Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation,

Respiratory Tract, Skin

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea

and headache. High concentrations may be fatal.

Skin Contact: Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to

permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort,

nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause

chemical pneumonitis which can be fatal.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: No data available to indicate product or any components

present at greater than 0.1% may cause birth defects. Upon prolonged and/or repeated exposure, can cause

moderate respiratory irritation, dizziness, weakness, fatigue,

nausea and headache.

Skin Contact: Upon prolonged or repeated contact, can cause minor

skin irritation, defatting, and dermatitis.

Component Toxicological Data:

NIOSH:

Inhalation:

Chemical Name CAS No. LD50/LC50

Pentane 109-66-0 Inhalation LC50 Rat: 364 gm/m3/4H

Component Carcinogenic Data:

OSHA:

Chemical Name CAS No.

No data available.

ACGIH:

Chemical Name CAS No.

No data available.

NIOSH:

Chemical Name CAS No.

No data available.

NTP:

Chemical Name CAS No.

No data available.

IARC:

Chemical NameCAS No.Group No.No data.Group 1

No data. Group 2A
No data. Group 2B

12. ECOLOGICAL INFORMATION

Overview: Slight ecological hazard. In high concentrations, this product

may be dangerous to plants and/or wildlife.

Mobility:No dataPersistence:No dataBioaccumulation:No data

Degradability: No data

Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of by incineration following Federal, State, Local,

or Provincial regulations.

Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial

Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:
UN Number:
Hazard Class:
Packing Group:

Pentanes
UN1265
3
II

International:

IATA Proper Shipping Name:
UN Number:
Hazard Class:
Packing Group:
Pentanes
UN1265
3
II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name CAS# CERCLA SARA 313 SARA EHS TSCA

313

Pentane 109-66-0 - - X

The following chemicals are listed on CA Prop 65:

Chemical Name CAS # Regulation

State Right To Know Listing:

Chemical Nam	e CA	S# Nev	v Jersey M	Massachusetts	Pennsylvania	California
Pentane	109	9-66-0 X	X	(Χ	Χ

16. OTHER INFORMATION

Prior Version Date: 07/28/14

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical

line in front of the concerned paragraph.

References: No data available.

Disclaimer: Restek Corporation provides the descriptions, data and information contained

herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given

and accepted at your risk.