

Safety Data Sheet Revision Date: 04/08/19

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2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name: 31483 / TX TPH Calibration Mix

Company:

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Revision Number: 9

Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:









GHS Hazard Symbols:

Germ Cell Mutagenicity Category 1B

Classification: Carcinogenicity Category 1B

Danger

Flammable Liquid Category 2

Hazardous to the aquatic environment - Chronic Category 2

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

GHS Signal

Word:

GHS

GHS Hazard:

Highly flammable liquid and vapour.

May cause drowsiness or dizziness.

May cause genetic defects.

May cause cancer.

Toxic to aquatic life with long lasting effects.

GHS

Precautions:

Safety Obtain special instructions before use.

Precautions: Do not handle until all safety precautions have been read and understood.

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

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

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

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

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell. 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 Exposure Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.

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	98
gasoline, automotive, unleaded	8006-61-9	232-349-1	1
diesel fuel #2 composite	68334-30-5	269-822-7	1

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. Immediately flush eyes with plenty of water. Get medical attention, if irritation

persists.

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. Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid. 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-controls.

Do not enter fire area without proper protection including self-contained 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.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

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.

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

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. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure
Pentane	109-66-0	1500 ppm IDLH (10% LEL)	None Known	600 ppm TWA; 1770 mg/m3 TWA	1000 ppm TWA; 2950 mg/m3 TWA
gasoline, automotive, unleaded	8006-61-9	Not established	None Known	Not established	No data available
diesel fuel #2 composite	68334-30-5	Not established	None Known	100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons)	No data available

Personal Protection:

Skin 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. Respiratory protection may be required in addition to ventilation depending upon conditions of use. 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
Wear protective gloves. 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 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: Colorless Odor: Mild

Physical State: No data available

pH: Not applicable Vapor Pressure: No data available

Vapor Density: 2.5 (air = 1)

Boiling Point (°C): 32 - 210 °C (HSDB) 36.1 °C (HSDB)

<-50 °C Melting Point (°C): Flash Point (°F): -56

Flammability: Highly Flammable Extremely Flammable

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

Autoignition Temperature (°C): 260 deg C

Decomposition Temperature (°C): No data available Specific Gravity: 630 kg/m3 at 15 °C **Evaporation Rate:** No data available Odor Threshold: No data available Solubility: Negligible: 0-1%

Partition Coefficient: n-octanol in water: No data available

VOC % by weight: 98

Molecular Weight: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents **Hazardous Decomposition Products:** 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.

Eve 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:

Diesel fuels

Inhalation:

CAS No. LD50/LC50 **Chemical Name**

Inhalation LC50 Rat 300 g/m3 5 min Gasoline, natural 8006-61-9

68334-30-5

Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 4.6 mg/L 4 h; Oral LD50 Rat 7500

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

Component Carcinogenic Data:

OSHA:

Chemical Name CAS No.

Diesel oil (petroleum) 68334-30-5 Present

ACGIH:

Chemical Name CAS No.

Diesel fuel 68334-30-5 A3 - Confirmed Animal Carcinogen with

Unknown Relevance to Humans

NIOSH:

Chemical Name CAS No.

No data available

NTP:

Chemical Name CAS No.

No data available

IARC:

 Chemical Name
 CAS No.
 Group No.

 Monograph 45 [1989]
 68334-30-5
 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 dataDegradability:No data

Ecological Toxicity Data: No data available

13. DISPOSAL CONSIDERATIONS

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

spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous

waste determination on mixtures.

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: Flammable liquids, n.o.s. (Pentane, Gasoline)

UN Number: UN1993
Hazard Class: 3
Packing Group: II

International:

IATA Proper Shipping Name: Flammable liquids, n.o.s. (Pentane, Gasoline)

UN Number: UN1993 Hazard Class: 3 Packing Group: 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 313	TSCA
Pentane	109-66-0	-	-	-	Χ
gasoline, automotive, unleaded	8006-61-9	-	-	-	Χ
diesel fuel #2 composite	68334-30-5	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS#	Regulation

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Pentane	109-66-0	Χ	Χ	Χ	Χ
gasoline, automotive, unleaded	8006-61-9	X	X	•	X
diesel fuel #2 composite	68334-30-5	-	-	X	-

16. OTHER INFORMATION

Prior Version Date: 12/11/18

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

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