

Multi-Purpose Penetrant

Safety Data Sheet

SECTION 1: Product and company identification

Product name : Multi-Purpose Penetrant
Use of the substance/mixture : Lubricant
Product code : 0300
Company : Total Solutions
P.O. Box 240014
Milwaukee, WI 53224 - USA
T 800-743-6417
athea.com
Contact: Technical Department
Emergency number : Chemtrec: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Asp. Tox. 1 H304

2.2. Label elements

GHS US labelling
Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : May be fatal if swallowed and enters airways.
Precautionary statements (GHS US) : If swallowed: Immediately call a doctor, a POISON CENTER.
Do NOT induce vomiting.
Store locked up.
Dispose of contents/container to comply with local/regional/national/international regulations..

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Alkanes, C14-16	(CAS-No.) 90622-46-1	15-40	Asp. Tox. 1, H304
Hydrotreated Middle Alkanes	(CAS-No.) 64742-46-7	5-10	Asp. Tox. 1, H304
Hydrocarbon Waxes, Petroleum, Oxidized	(CAS-No.) 64743-00-6	3-7	Eye Irrit. 2, H319
Barium Sulphonate	(CAS-No.) 61790-48-5	1-5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Multi-Purpose Penetrant

Safety Data Sheet

SECTION 4: First aid measures

4.1. Description of first aid measures

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| First-aid measures general | : If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. |

4.2. Most important symptoms and effects, both acute and delayed

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|-------------------------------------|--|
| Symptoms/effects | : May be fatal if swallowed and enters airways. |
| Symptoms/effects after inhalation | : None under normal use. |
| Symptoms/effects after skin contact | : Contact during a long period may cause light irritation. |
| Symptoms/effects after eye contact | : Direct contact with the eyes is likely to be irritating. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | : Dry chemical powder. Carbon dioxide. Alcohol-resistant foam. |
| Unsuitable extinguishing media | : Solid water jet ineffective as extinguishing medium. |

5.2. Special hazards arising from the substance or mixture

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| Fire hazard | : May release hazardous gases. |
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |

5.3. Advice for firefighters

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| Firefighting instructions | : Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| General measures | : Remove ignition sources. Use special care to avoid static electric charges. |
|------------------|---|

6.1.1. For non-emergency personnel

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| Protective equipment | : Protective goggles. Gloves. Protective clothing. |
| Emergency procedures | : Evacuate unnecessary personnel. No naked flames or sparks. |

6.1.2. For emergency responders

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| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Stop leak if safe to do so. Stop release. Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

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|-------------------------|--|
| For containment | : Contain released product, collect/pump into suitable containers. |
| Methods for cleaning up | : This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution. |

6.4. Reference to other sections

No additional information available

Multi-Purpose Penetrant

Safety Data Sheet

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately. Do not breathe mist, spray.
- Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.
- Incompatible products : Oxidizing agent. Acids.
- Incompatible materials : Sources of ignition.
- Storage area : Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.
- Special rules on packaging : Keep only in original container. meet the legal requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alkanes, C14-16 (90622-46-1)

Not applicable

Sulfonic Acids, Petroleum, Barium Salts (61790-48-5)

Not applicable

Hydrotreated Middle Alkanes (64742-46-7)

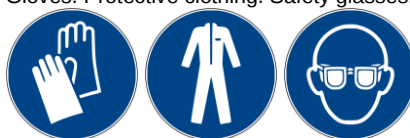
Not applicable

Hydrocarbon Waxes, Petroleum, Oxidized (64743-00-6)

Not applicable

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Safety glasses.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : dark brown, Clear to hazy liquid
- Odour : Hydrocarbon odor
- Odour threshold : No data available
- pH : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 210 °F Closed Cup
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability : No data available
- Explosive limits : No data available
- Explosive properties : No data available
- Oxidising properties : No data available
- Vapour pressure : No data available
- Relative density : No data available
- Relative vapour density at 20°C : No data available

Multi-Purpose Penetrant

Safety Data Sheet

Density	: 0.82 g/ml
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: < 20 cSt
Viscosity, dynamic	: No data available
VOC content	: < 10 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Oxidizing agents. Acids.

10.6. Hazardous decomposition products

Thermal decomposition produces: CO, CO₂, Oxides of nitrogen and other potentially toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Alkanes, C14-16 (90622-46-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.8 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : Contact during a long period may cause light irritation.
Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.
Likely routes of exposure : Skin and eyes contact

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to comply with local/regional/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT : Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

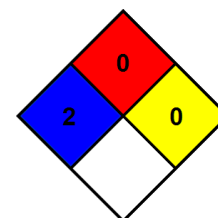
This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.