

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

MANUF / DIST: DETAILS MANUFACTURING AND DISTRIBUTING
504 E. LINCOLN WAY
AMES, IOWA 50010

PREPARER / CONTACT: LUKE STAGG
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TRADE NAME / SYNONYMS: **TAR SOLV**

CHEMICAL NAME / SYNONYMS: NOT APPLICABLE
CHEMICAL FAMILY: NOT APPLICABLE
FORMULA: PROPRIETARY
PRODUCT CODE: TS
PRODUCT INTENDED USE: AUTOMOTIVE CLEANER

SECTION 2. HAZARDOUS IDENTIFICATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM:

HAZARD WARNING

4 - Extreme

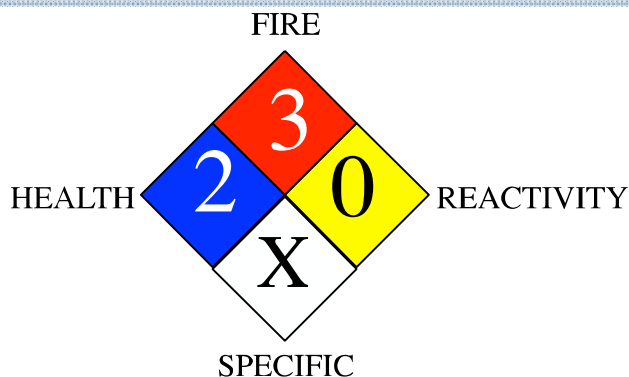
3 - High

2 - Moderate

1 - Slight

0 - Insignificant

X- See Section IV & V of SDS Sheet



Signal Word: WARNING! - FOR HEALTH EFFECTS (Acute and Chronic): SEE SECTION 11

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

NAMES OF HAZARDOUS INGREDIENTS: See CFR29§1910.1200 (i)-(13) [exact % withheld as trade secret]

CHEMICAL / COMMON NAME	CAS#	PERCENTAGE	PEL-OSHA	TLV-ACGIH
Aliphatic Hydrocarbons	64742-47-8	>1	100PPM	100PPM
Xylene	1330-20-7	>1	100PPM	100PPM

THIS PRODUCT DOES NOT CONTAIN CARCINOGENS: (NTP, IARC, OSHA):

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SECTION 4 - FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

- a) Skin - Immediately flush skin with lots of running water for at least 30 minutes. Remove contaminated clothing and shoes. Wash before reuse.
- b) Eyes - Flush immediately with large quantities of running water for at least 15 minutes. Consult a physician.
- c) Inhalation - If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.
- d) Ingestion - Do not induce vomiting. Call physician immediately. If conscious give lots of water or milk. Do not give anything by mouth to an unconscious or convulsing person.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Regular foam, waterfog, carbon dioxide, or dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES:

Clear fire area of unprotected personnel. Do not enter confined fire area without full bunker gear, including a positive pressure mode breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights or other flames and ignition sources at an location distant from the material handling point. *See additional comment.

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce oxides of carbon and traces of hydrocarbons.

OTHER ADDITIONAL COMMENTS:

*Special Fire Fighting Procedures.

- a) Cool fire exposed containers with water fog.
- b) FLAMMABLE - Keep containers tightly closed and keep away from heat and open flame. In case of fire containers cool with water spray using fog nozzles.

*Unusual Fire and Explosion Hazards

- a) Never use welding or cutting torch on or near container (even empty) because product (even residue) can ignite explosively.
- b) All 5 gallon pails and larger metal containers should be grounded when material is transferred.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate reason for spill.

Eliminate all ignition sources. Absorb on suitable absorbent and shovel into containers.

INCOMPATIBILITY (Material To Avoid):

Avoid contact with strong oxidizing agents such as chlorine, permanganate, etc.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

- a) Protect from physical damage and keep tightly closed.
- b) Keep away from heat, sparks and open flames.
- c) Containers should be marked UN 1307 FLAMMABLE LIQUID

MAINTENANCE PRECAUTIONS:

When working with FLAMMABLE material electrically ground all equipment and use only non-sparking tools.

OTHER PRECAUTIONS:

- a) Containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings.
- b) Always ground metal containers while pouring.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION:

LOCAL EXHAUST: Below TLV(s) MECHANICAL (General): Explosion Proof
SPECIAL: N/A OTHER N/A

RESPIRATORY PROTECTION:

If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied air respirator advised in absence or proper environmental control.

PROTECTIVE GLOVES:

Wear - resistant gloves such as nitrile rubber, PVC, etc.

OTHER PROTECTIVE EQUIPMENT:

- To prevent repeated and prolonged skin contact, wear impervious clothing and boots.
- Eye wash and quick drench facilities.

OTHER ENGINEERING CONTROLS: None Known

WORK PRACTICES:

Eye wash fountain and safety shower should be easily accessible. Discard properly such items as rags and trash soaked with the product. Provide adequate ventilation.

HYGIENIC PRACTICES:

Avoid contact with eyes, skin and clothing. Avoid inhalation of product vapors. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing promptly and wash thoroughly before reused.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (Method Used):	75 F (cc) (Xylene Portion)	FLAMMABLE LIMITS:	LEL= 0.9% UEL=6%
BOILING POINT (F):	>240	SPECIFIC GRAVITY (WATER=1):	0.810
VAPOR PRESSURE (mmHg):	N/D	PERCENT VOLATILE BY VOLUME (%):	>90
VAPOR DENSITY (AIR=1):	N/D	EVAPORATION RATE (WATER=1):	< 1
SOLUBILITY IN WATER:	Insoluble	APPEARANCE,ODOR,VISCOSITY:	Colorless thin liquid with citrus odor.
MELTING/FREEZING POINT	N/D	pH	N/A

Melting pt-N/A /freezing pt-N/A /Relative density N/A

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION WILL NOT OCCUR THIS PRODUCT IS STABLE

SECTION 11 - TOXICOLOGICAL INFORMATION

FOR NUMERICAL MEASURES OF TOXICITY SEE SECTION 3, COLUMNS (PEL-OSHA)AND(TLV-ACGIH)

PRIMARY ROUTES OF ENTRY:

- a) Skin b) Inhalation

b) HEALTH EFFECTS (Acute and Chronic):

Acute:

- Eyes - Can cause severe irritation, redness, tearing, blurred vision.
- Skin - Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.
- Inhalation - Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.
- Ingestion - Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic:

- Inhalation may increase susceptibility to respiratory illness.
- Overexposure to some of the components (in its pure state) has apparently been found to cause anemia, liver abnormalities, kidney damage, lung damage and blood abnormalities in laboratory animals.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to product.

THIS PRODUCT DOES NOT CONTAIN CARCINOGENS: (NTP, IARC, OSHA)

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: N/A

ECOTOXICOLOGICAL INFORMATION: N/A

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:

Contaminated absorbent may be disposed of according to local, state and federal regulations for products containing petroleum distillates.

SECTION 14 - TRANSPORT INFORMATION

SHIPPING INFO, UN/NA #'s, Secondary container label INFO NECESSARY OR SUGGESTED:

XYLENE, 3, UN-1307, PG II, FLAMMABLE LIQUID

SECTION 15 - REGULATORY INFORMATION

THIS PRODUCT DOES NOT CONTAIN CARCINOGENS: (NTP, IARC, OSHA):

SECTION 16 - OTHER INFORMATION

KEEP OUT OF THE REACH OF CHILDREN!

IN CLOSE COOPERATION OF THE US GOVERNMENT'S PAPER REDUCTION ACT, AND ALSO IN EFFORT TO PROVIDE FULL AND COMPLETE INFORMATION AS SUGGESTED BY THE OSHA GUIDELINES, AND KEEPING IN ALIGNMENT WITH THE SOCIETY for CHEMICAL HAZARD COMMUNICATION (SCHC) AND WE HAVE BEEN ABLE TO KEEP ALL IN 4 PAGES..

THESE SDS SHEETS ARE WRITTEN IN AN EFFORT TO PROVIDE INFORMATION TO THE WORKER IN THE WORKPLACE AND IN SUCH A WAY IT CAN BE UNDERSTOOD.

We have enjoyed many compliments as to the readability and understandable content, and take great pride in providing these Safety Data Sheets to the use of our customers.

The International Labour Organization has suggested 16 sections of the sheets, and we have re adjusted the 8 part, and rearranged the information, and renamed the sheets from MATERIAL Safety Data Sheets to SAFETY DATA SHEETS. THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED FOR A CONTINUING SAFETY PROGRAM INITIATED BY THE MANUFACTURER/DISTRIBUTOR NAMED ON THIS SHEET. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN.

Please note that several items were left out of section 9 because they do not affect the worker in the workplace. Partition coefficient: n-octanol/water;
• Auto-ignition temperature; • Decomposition temperature and Odor threshold.