

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Macmillan 140 Safety Solvent

Product Code:

Chemical Name: Macmillan 140 Safety Solvent

Chemical Family: Aliphatic Hydrocarbon

Manufacturer: Scot Lubricants

1801 E. Tremont Street

P.O. Box 326

Allentown, PA 18105

Emergency Telephone Numbers

Information: 610-433-2527 8am-5pm EST M-F

CHEMTREC: 800-424-9300 24 hrs every day

2. COMPOSITION / INFORMATION ON INGREDIENT

Ingredient (s):	CAS Number	% (by weight)
ALIPHATIC HYDROCARBONS (STODDARD TYPE)	8052-41-3	98.0 — 100.0
1, 3, 5 - TRIMETHYLBENZENE	108-67-8	2.0 — 6.0
1, 2, 4 - TRIMETHYLBENZENE	95-63-6	2.0 — 6.0
XYLENE	1330-20-7	0.0 — 3.0
ETHYLBENZENE	100-41-4	0.0 — 1.0

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: CLEAR LIQUID

ODOR: PETROLEUM NAPHTHA

POTENTIAL HEALTH EFFECTS:

INHALATION: BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS

INGESTION: SWALLOWING SMALL AMOUNTS NOT HARMFUL; LARGE AMOUNTS MAY CAUSE LUNG INFLAMMATION

EYE CONTACT: MAY CAUSE MILD EYE IRRITATION

SKIN CONTACT: PROLONGED OR REPEATED CONTACT CAN CAUSE SKIN IRRITATION

SKIN ABSORPTION: PRACTICALLY NON-TOXIC

CARCINOGEN LISTED BY: IARC(YES) NTP(NO) OSHA(NO) ACGIH(NO) OTHER(NO)

NFPA/HMIS CLASSIFICATION

HEALTH - 1

FLAMMABILITY - 2

REACTIVITY - 0

HAZARD RATING

0=LEAST 1=SLIGHT

2=MODERATE 3=HIGH

4=EXTREME

4. FIRST AID MEASURES

INHALATION: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

EYE CONTACT: Move into fresh air, flush gently with water while holding eyelids open for at least 15 minutes. If symptoms persist or there is any visual difficulty, obtain medical assistance.

SKIN CONTACT: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. Wash clothing before reuse.

INGESTION: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

SYMPTOMS OF EXPOSURE: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the face and neck, mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), tight feeling in the chest, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, respiratory depression (slowing of the breathing rate), shortness of breath, loss of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), respiratory failure, coma. **Primary route of entry: Inhalation, skin absorption, skin contact, eye contact, ingestion.**

5. FIRE AND EXPLOSION

FLASHPOINT: 105.0 F (40.5 C) TCC

EXPLOSIVE LIMIT: (for product) Lower 1.0 Upper 6.0 %5

AUTO-IGNITION TEMP: 535.0 F (279.4 C)

EXTINGUISHING MEDIA: Regular foam, carbon dioxide, dry chemical.

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, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

FIRE FIGHTING INSTRUCTIONS: Wear a self-contained breathing apparatus with a full facepieces operated in the positive pressure demand mode with appropriate turnout gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material

Large Spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

Persons not wearing protective equipment should be excluded from area or spill until clean up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent runoff to sewers, streams or other bodies of water. If runoff occurs, notify proper authorities as required, that a spill has occurred.

7. EMERGENCY AND FIRST AID

INHALATION: Remove individual (s) to fresh air.

EYE CONTACT: Flush with water 15 minutes.

SKIN CONTACT: Wash with soap and water.

INGESTION: Contact physician immediately. Do not induce vomiting.

NOTE TO PHYSICIAN: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (see Section 4 – Ingestion) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidney, central nervous system, male reproductive system, immune system, auditory system. Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

RESPIRATORY: If workplace exposure limit (s) of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

EXPOSURE GUIDELINES.

Component

ALIPHATIC HYDROCARBONS (STODDARD TYPE) (8052-41-3)

OSHA PEL 500.000 ppm – TWA

OSHA VPEL 100.000 ppm – TWA

ACGIH TLV 100.000 ppm – TWA

1, 3, 5, - TRIMETHYLBENZENE (108-67-8)

No exposure limits established

1, 2, 4, - TRIMETHYLBENZENE (95-63-6)

No exposure limits established

XYLENE (1330-20-7)

OSHA PEL 100.000 ppm – TWA

OSHA VPEL 100.000 ppm – TWA

OSHA VPEL 100.000 ppm – STEL

ACGIH TLV 100.000 ppm – TWA

ACGIH TLV 150.000 ppm – STEL

OTHER LIMIT 46.000 ppm – TWA

ETHYLBENZENE (100-41-4)

OSHA PEL 100.000 ppm – TWA

OSHA VPEL 100.000 ppm – TWA

OSHA VPEL 100.000 ppm – STEL

ACGIH TLV 100.000 ppm – TWA

ACGIH TLV 125.000 ppm – STEL

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: CLEAR & COLORLESS / PETROLEUM NAPHTHA

BOILING POINT: (for product) 315.0 – 398.0 F (157.2 – 203.3 C) @ 760 mmHg

FREEZING POINT: 1.0 F (-17.2) C)

SOLUBILITY IN WATER: NEGLIGIBLE

VAPOR PRESSURE: 2.000 mmHg @ 68.00 F

EVAPORATION RATE: .12 (Butyl Acetate)

STATE: Liquid

PHYSICAL FORM: Homogeneous Solution

LIQUID DENSITY: .787 kg/One @ 16.00 C

6.560 lbs/gal @ 60.00 F

VISCOSITY: 1.0 cps @ 100.00 F

DRY POINT: N/D

VAPOR SPECIFIC DENSITY: 4.900 @ AIR=1

SPECIFIC GRAVITY: .787 @ 60.00 F

PERCENT VOLATILES: 100%

VOLATILE ORGANIC COMPOUNDS (VOC)

100.000 % 787.000 g/l 6.560 lbs/gal

pH: No data

MOLECULAR WEIGHT: 140.0

BULK DENSITY: .880 LBS/FT3

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: EXTREME HEAT OR OPEN FLAME

MATERIALS TO AVOID: STRONG-OXIDIZING AGENTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION: MAY FORM: CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS.

11. ADDITIONAL PRECAUTIONS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Hydrocarbon solvents are non-conductors of electricity and can become electrostatically

charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. **Warning:** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Pulished "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

12. TRANSPORTATION INFORMATION

DOT DESCRIPTION	Petroleum Distillates, N.O.S. , Combustible Liquid, UN1268, III
HAZARD CLASS	Not regulated
ID NUMBER	Not regulated
LABEL REQUIRED	Not regulated
IMDG PROPER SHIPPING NAME	N.D.
IATA PROPER SHIPPING NAME	N.D.

13. REGULATORY INFORMATION

TSCA: This material is in compliance with the TOXIC SUBSTANCES CONTROL ACT (15 USC 2601-2629) and is listed in the TSCA Inventory.

SARA 302 COMPONENTS	N/A		
SARA 304 REPORTABLE QUANTITY – 3333 XYLENES (O-, M-, P- ISOMERS)			
SARA 311/312 REPORTING - 49 CFR 172.101			
	Health	Immediate (Acute)	Yes
	Health	Delayed (Chronic)	Yes
	Physical	Fire	Yes
	Physical	Sudden Release of Pressure	No
	Physical	Reactive	No
SARA 313 COMPONENTS – 40 CFR 372.65			
1, 2, 4-TRIMETHYLBENZENE	CAS Number	95-63-6	6.00%
XYLENE (MIXED Isomers)	CAS Number	1330-20-7	3.00%
ETHYLBENZENE	CAS Number	100.41.4	1.00%

When a product and/or component are listed below, the regulatory list on which it appears is indicated.

01=SARA 313	02=SARA 302	03=IARC CARCINOGEN
04=CERCLA 302.4	PA=PENNSYLVANIA RTK	NJ=NEW JERSEY RTK
CA=CALIFORNIA PROP 65	AICS=AUSTRALIA	DSL=CANADA
ECL=SOUTH KOREA	EINECS=EUROPE	ENCS=JAPAN
PICCS=PHILIPPINES		

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