

Material Safety Data Sheet

Material Name: BESTINE Solvent and Thinner

MSDS ID: UR-001

* * *Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION* * *

Material Name: BESTINE Solvent and Thinner

Manufacturer Information Union Rubber, Inc. 232 Allen Street P.O. Box 1040 Trenton, NJ 08606

Phone: 609-396-9328 Fax: 609-396-3587

Emergency: Chemtrec: 800-424-9300

Synonyms

NORMAL HEPTANE; DIPROPYL METHANE; HEPTYL HYDRIDE; DIPROPYLMETHANE; N-HEPTANE; UN 1206; C7H16

Chemical Family

hydrocarbons, aliphatic

* * *Section 2 - HAZARDS IDENTIFICATION* * *

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe EMERGENCY OVERVIEW Color: colorless Physical Form: liquid Odor: gasoline odor Health Hazards: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, aspiration hazard Physical Hazards: Flammable liquid and vapor. Vapor may cause flash fire. Electrostatic charges may be generated by flow, agitation, etc.

POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: irritation, headache, drowsiness, dizziness, emotional disturbances, loss of coordination, fatigue, nausea, suffocation, unconsciousness **Long Term:** no information is available

Skin

Short Term: irritation Long Term: irritation

L Eye

Short Term: irritation

Long Term: irritation

Ingestion

Short Term: gastrointestinal irritation, nausea, vomiting, diarrhea, stomach pain, headache, drowsiness, dizziness, emotional disturbances, loss of coordination, unconsciousness, aspiration hazard **Long Term:** no information is available

Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is a controlled product under Canadian WHMIS regulations.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent
142-82-5	HEPTANE	100

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Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Heptane isomers.

* * *Section 4 - FIRST AID MEASURES* * *

Inhalation If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. Skin Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse. Eves Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention. Ingestion Aspiration hazard. DO NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get immediate medical attention. Give artificial respiration if not breathing. Note to Physicians For inhalation, consider oxygen. * * *Section 5 - FIRE FIGHTING MEASURES* * * See Section 9 for Flammability Properties Flammable Properties Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion. **Extinguishing Media** regular dry chemical, carbon dioxide, water spray, regular foam Protective Equipment and Precautions for Firefighters Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. **Fire Fighting Measures** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Water may be ineffective. **Hazardous Combustion Products** Combustion: aldehydes, oxides of carbon Sensitivity to Mechanical Impact Not sensitive Sensitivity to Static Discharge Yes * * *Section 6 - ACCIDENTAL RELEASE MEASURES* * * **Occupational spill/release** Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry

* * *Section 7 - HANDLING AND STORAGE* * *

Handling Procedures

Wash thoroughly after handling. Keep away from heat, sparks and flame.

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Storage Procedures

Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

ction 8 - EXPOSURE CONTROLS / PERS
Limits
2-82-5)
400 ppm TWA
500 ppm STEL
85 ppm TWA; 350 mg/m3 TWA
440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)
750 ppm IDLH
500 ppm TWA; 2085 mg/m3 TWA
500 ppm TWA; 2000 mg/m3 TWA
400 ppm TWA; 1600 mg/m3 TWA
500 ppm STEL; 2000 mg/m3 STEL
Skin - potential for cutaneous absorption

IDLH

Comp

750 ppm

Ventilation

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. **PERSONAL PROTECTIVE EQUIPMENT**

Eyes/Face

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Protective Clothing

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

750 ppm

Any air-purifying half-mask respirator equipped with organic vapor cartridge(s).

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.

Any powered, air-purifying respirator with organic vapor cartridge(s).

Any supplied-air respirator.

Any self-contained breathing apparatus with a full facepiece.

Emergency or planned entry into unknown concentrations or IDLH conditions -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Escape -

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.

Any appropriate escape-type, self-contained breathing apparatus.

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* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State: Color: Odor: pH: Boiling Point: Evaporation Rate: LEL: Vapor Pressure: Density: Water Solubility: Auto Ignition: VOC: Molecular Weight:	colorless gasoline odor essentially neutral 88-105 °C 4.5 (butyl acetate=1) 1.05 % ~40 mmHg @20 °C Not available slightly soluble 285 °C		Appearance: Physical Form: Odor Threshold: Melting/Freezing Point: Flash Point: OSHA Flammability Class: UEL: Vapor Density (air = 1): pecific Gravity (water = 1): Coeff. Water/Oil Dist: Viscosity: Volatility: Molecular Formula:	liquid 200 ppm -91 °C -4 °C (CC) IB 6.7 % 3.45 0.68 Not available Not available 100 % @25 °C						
Solvent Solubility	ar ablarafarm agatana									
	er, chloroform, acetone									
	<u>***Section 10 - 517</u>		AND REACTIVITY* * '							
Chemical Stability										
	peratures and pressure.									
Conditions to Avoid										
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.										
Materials to Avoid										
calcium hypochlorite, combustible materials, concentrated oxygen, liquid chlorine, oxidizing materials, sodium										
hypochlorite										
Hazardous Decomposition										
Combustion: aldehy										
Possibility of Hazardous Re	actions									
Will not polymerize.										
* *	*Section 11 - TOXIO	COLOGI	CAL INFORMATION*	* *						
Component Analysis - LD50										
	is material have been rev	viewed in v	arious sources and the foll	owing selected endpoints are						
published:										
HEPTANE (142-82-5)										
Component Carcinogenicity		viouse 500	0 mg/kg; Dermal LD50 Rat	blit 3000 mg/kg						
			ARC, NTP, DFG or OSHA.							
Irritation	components are listed b	y AOOIII, I								
Causes skin, eye and	respiratory irritation.									
Target Organs										
central nervous syste										
Medical Conditions Aggrava	ated by Exposure									
Medical Conditions Aggrava respiratory disorders,		ies								
Medical Conditions Aggrava respiratory disorders, Tumorigenic	ated by Exposure	ies								
Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available.	ated by Exposure	ies								
Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available. Mutagenic	ated by Exposure	ies								
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Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available. Mutagenic	ated by Exposure	ies								
Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available. Mutagenic No data available. Reproductive Effects	ated by Exposure	ies								
Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available. Mutagenic No data available. Reproductive Effects No data available. Additional Data	ated by Exposure		rillation.							
Medical Conditions Aggrava respiratory disorders, Tumorigenic No data available. Mutagenic No data available. Reproductive Effects No data available. Additional Data	ated by Exposure skin disorders and allergi		rillation.							

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* * *Section 12 - ECOLOGICAL INFORMATION* * *

Component Analysis - Aquatic Toxicity

HEPTANE (142-82-5)

Fish: 96 Hr LC50 Cichlid fish: 375.0 mg/L

Invertebrate: 24 Hr EC50 Daphnia magna: >10 mg/L

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information (49 CFR) Shipping Name: Heptanes UN/NA #: UN1206 Hazard Class: 3 Packing Group: II Required Label(s): 3

TDG Information

Shipping Name: Heptanes UN #: UN1206 Hazard Class: 3 Packing Group: II Required Label(s): 3

IATA Information

Shipping Name: Heptanes UN #: UN1206 Hazard Class: 3 Packing Group: II Required Label(s): 3

* * *Section 15 - REGULATORY INFORMATION* * *

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan. HEPTANE (142-82-5)

TSCA 12b: Section 4, 1 % de minimus concentration

SARA 311/312

Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No Reactive: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
HEPTANE	142-82-5	Yes	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL. **HEPTANE (142-82-5)** 1 % WHMIS Classification B2, D2B. Canadian Inventory Listed on DSL. U.S. Inventory (TSCA) Listed on inventory.

CAS

142-82-5

US

Yes

CA

DSI

Component Analysis - Inventory

Component

HEPTANE

* * *Section 16 - OTHER INFORMATION* * *

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR -Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ -ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG -Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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New MSDS 5/20/2011

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