



HYDRUS
detergents

THIS APPLIES TO UNDILUTED MATERIAL ONLY!

Safety Data Sheet
BIO ASPHALT REMOVER₅₉₉
SDS Revision Date: 07/31/2020

1. Product and Company Name

1.1. Product identifier

Product Identity BIO ASPHALT REMOVER₅₉₉
Alternate Names NA ID NO: 599.20

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See product label.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name HYDRUS DETERGENTS
2621 7th Avenue South
Estherville, IA. 51334

1.4 Medical and Emergency Spill Information

FOR EMERGENCY SPILL, LEAK, FIRE, EXPOSURE
24 hr. Emergency Telephone No. CHEMTREC: (800) 424-9300
Outside US: (703)-527-388

Customer Service: HYDRUS DETERGENTS PHONE: (712) 765-1060
Fax: (712) 765-1062

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315 May cause skin irritation
Eye Dam. 1;H318 May cause serious eye damage
Skin Sens. 1;H317 May cause an allergic skin reaction.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Warning

H315 May cause skin irritation
H317 May cause an allergic skin reaction
H318 May cause serious eye damage

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
P313 Get medical advice / attention.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

[Storage]:

No GHS storage statements.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
D-Limonene CAS Number: 0005989-27-5	1.0 -5.0

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to material other than this product may have occurred.

Inhalation

If breathing is difficult move outside.

Eyes

Allow streaming water to flow over the face while blinking the eyes for at least 15 minutes, making sure you have complete irrigation of the eye and lids. Seek medical attention immediately.

Skin

Wash off immediately. Seek medical attention if irritation persists.

Ingestion

Do NOT induce vomiting. Get medical attention.

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

Overview

IMMEDIATE CONCERNS: CAUTION: May cause eye or skin irritation.

POTENTIAL SIDE AFFECTS:

EYES: Irritation may occur when using undiluted.

SKIN: Irritation may occur when using undiluted.

INGESTION: Stomach irritation may occur when using undiluted.

INHALATION: NA

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation

SKIN: Irritation

INGESTION: Irritation

INHALATION: NA

ACUTE TOXICITY: Eye, skin, irritation.

See Section 2 for further details.

EYES:

May cause serious eye damage.

SKIN:

May cause skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media: Water, Dry Chemical, Carbon Dioxide, Foam

5.2. Special hazards arising from the substance or mixture: Rags soaked in product should be stored in UL listed covered containers.

Hazardous decomposition: NA

Avoid breathing dust/fume/gas/mist/vapors/spray

5.3. Advice for fire-fighters

Respiratory and eye protection are required for fire-fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

ERG Guide No. -----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions :

WATER SPILL: Use appropriate containment to avoid runoff.

LAND SPILL: Use appropriate containment to avoid runoff. RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S. contact the US Coast Guard National Response Center toll free at 800-424-8802.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

SMALL SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible and place into recovery container.

LARGE SPILL: Shut off leak if it can be done without injury. Contain spill as much as possible and place into recovery container.

Dispose of in accordance with all Federal, State and Local pollution control laws and regulations.

7. Handling and storage

7.1. Precautions for safe handling

Handle in a well ventilated area. Handle and use in a manner consistent with good industrial and/or manufacturing techniques and practices.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry area. Keep container closed when not in use. Freeze/thaw stable; however container could crack when frozen.

Incompatible materials: Oxidizing Agents

See section 2 for further details. - [Storage]:

7.3. Specific end use(s): Industrial cleaner tar remover.

8. Exposure controls and personal protection

8.1. Control parameters

Carcinogen Data: No known or suspected carcinogens.

8.2. Exposure controls

Respiratory

General ventilation

Eyes

Safety glasses or goggles recommended.

Skin

Wear overalls/jacket to keep skin contact to a minimum. Rubber gloves.

Engineering Controls

Use with adequate ventilation

Other Work Practices

Facilities storing or using this material should be equipped with an eyewash facility and emergency shower. Good personal hygiene practices should always be followed. Always wash thoroughly after handling.

REMARKS: This product contains hazardous ingredients per OSHA 29 CFR 1910.1200. No PEL's TLV's or OEL's for this product or its ingredients are not listed in the current issue of ACGIH's Guide to Occupational Exposure values nor have they been determined by the manufacturer.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Light yellow liquid
Odor	Citrus
Odor threshold	Not Measured
pH	NA
Melting point / freezing point	32 Deg. F.
Initial boiling point and boiling range	<400 Deg. F.
Flash Point	>200 Deg. F. PMCC
Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: .NA Upper Explosive Limit: NA
Vapor pressure (Pa)	.5.0 mm @ 70 Deg. F.
Vapor Density	9.7 (Air=1)
Specific Gravity	.85
Solubility in Water	Insoluble

Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	484 Deg. F.
Decomposition temperature	NA
Viscosity (cSt)	NA
VOC%	<23 g/l Undiluted
Molecular Weight	NA
Molecular Formula	NA
Coefficient of Oil/Water Distribution	NA
Freezing Point	32 Deg. F

9.2. Other information

No other relevant information.

10. Stability and reactivity

- 10.1. Reactivity:** Hazardous Polymerization will not occur.
10.2. Chemical stability: Stable under normal circumstances.
10.3. Possibility of hazardous reactions: No data available
10.4. Conditions to avoid: Excess heat or open flame
10.5. Incompatible materials: Oxidizing agents
10.6. Hazardous decomposition products: NA

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
D-Limonene - (5989-27-5)	4,400.00, Rat - Category: 5	5,000.00, Rabbit - Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	May cause skin irritation.
Serious eye damage/irritation	1	May cause serious eye damage
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
D-Limonene - (5989-27-5)	0.702, Pimephales promelas	0.577, Daphnia magna	Not Available

- 12.2 Persistence and degradability:** There is no data available on the preparation itself.
12.3. Bioaccumulative potential: Not Measured
12.4. Mobility in soil: No data available
12.5. Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals
12.6. Other adverse effects: No data available

13. Disposal considerations

13.1. Waste treatment methods: Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user:	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.		
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.		
WHMIS Classification	D2B E		
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No		
EPCRA 311/312 Chemicals and RQs:	(No Product Ingredients Listed)		
EPCRA 302 Extremely Hazardous :	(No Product Ingredients Listed)		
EPCRA 313 Toxic Chemicals:	(No Product Ingredients Listed)		
Proposition 65 - Carcinogens (>0.0%):	(No Product Ingredients Listed)		
Proposition 65 - Developmental Toxins (>0.0%):	(No Product Ingredients Listed)		
Proposition 65 - Female Repro Toxins (>0.0%):	(No Product Ingredients Listed)		
Proposition 65 - Male Repro Toxins (>0.0%):	(No Product Ingredients Listed)		
N.J. RTK Substances (>1%) :	(No Product Ingredients Listed)		
Penn RTK Substances (>1%) :	(No Product Ingredients Listed)		

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

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