# BBI

# SAFETY DATA SHEET

## 1. Identification

Product identifier HDD17 Gunk Heavy Duty All-Purpose Foaming Degreaser

Other means of identification

SDS number HDD17
Part No. HDD17/6
Tariff code 3402.20.5100
Recommended use Degreaser
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Blumenthal Brands Integrated, LLC

Address 600 Radiator Road

Indian Trail, NC 28079

**Telephone** Customer Service/ (704) 821-7643

Technical

Website www.solvewithB.com E-mail sds@solvewithB.com

Emergency phone number INFOTRAC (United States) (800) 535-5053

INFOTRAC (International) (352) 323-3500

## 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 2

**Health hazards** Serious eye damage/eye irritation Category 2

Sensitization, skin Category 1
Germ cell mutagenicity Category 1B
Carcinogenicity Category 1B
Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable aerosol. Causes skin irritation. May cause an allergic skin reaction. Causes serious

eye damage. May cause genetic defects. May cause cancer. Very toxic to aquatic life. Very toxic

to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist/vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage

Disposal

Hazard(s) not otherwise

**Supplemental information** 

classified (HNOC)

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

None known.

6.75% of the mixture consists of component(s) of unknown acute oral toxicity. 9.75% of the mixture consists of component(s) of unknown acute dermal toxicity. % of the mixture consists of component(s) of unknown acute inhalation toxicity. 11.75% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 11.75% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the workplace.

# 3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	80 - < 90
Propane		74-98-6	5 - < 10
Alcohols, C9-11, ethoxylated		68439-46-3	3 - < 5
Butoxydiglycol		112-34-5	1 - < 3
Distillates (petroleum), Hydrotreated Light	Hydrotreated light distillates (petroleum)	64742-47-8	1 - < 3
1,2,4-Trimethylbenzene		95-63-6	< 1
C9-C15 Heavy Aromatic Hydrocarbons		64742-95-6	< 1
Kerosene		8008-20-6	< 1
Morpholine		110-91-8	< 1
Oleic Acid		112-80-1	< 1
Sodium Gluconate		527-07-1	< 1
Trimethylbenzene		25551-13-7	< 1
Triethanolamine		102-71-6	< 0.3
1,2,3-Trimethylbenzene		526-73-8	< 0.2
1,3,5-Trimethylbenzene		108-67-8	< 0.2
Sodium Nitrite		7632-00-0	< 0.2
Cumene		98-82-8	< 0.1
Cymene		25155-15-1	< 0.1
Diethanolamine		111-42-2	< 0.1
Ethylenediamine		107-15-3	< 0.1
Methoxyethanol		109-86-4	< 0.1
Naphthalene		91-20-3	< 0.1
N-Ethylmorpholine		100-74-3	< 0.1
Toluene		108-88-3	< 0.1
Xylene		1330-20-7	< 0.1

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Flammable aerosol.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL. TLV or other recommended exposure limit.

The following constituents are the onl At this time, the other constituents ha		nich have a PEL, TLV or other re	ecommended exposure limit.
US. OSHA Table Z-1 Limits for Air (Components	Contaminants (29 CFR 1910.1 Type	000) Value	
C9-C15 Heavy Aromatic Hydrocarbons (CAS	PEL	400 mg/m3	
64742-95-6)		100 ppm	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
,		50 ppm	
Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)	PEL	400 mg/m3	
,		100 ppm	
Ethylenediamine (CAS 107-15-3)	PEL	25 mg/m3	
		10 ppm	
Methoxyethanol (CAS 109-86-4)	PEL	80 mg/m3	
		25 ppm	
Morpholine (CAS 110-91-8)	PEL	70 mg/m3	
	DE!	20 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
N. Ethadra and balling (OAC)	DEL	10 ppm	
N-Ethylmorpholine (CAS 100-74-3)	PEL	94 mg/m3	
Propane (CAS 74-98-6)	PEL	20 ppm 1800 mg/m3	
Fiopalie (CAS 14-96-0)	FEL	1000 mg/ms	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
7,5,5,5,6		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910.	1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
1,2,3-Trimethylbenzene (CAS 526-73-8)	TWA	25 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	25 ppm	
Butoxydiglycol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.

Components	Type	Value	Form
Cumene (CAS 98-82-8)	TWA	50 ppm	
Diethanolamine (CAS 11-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
thylenediamine (CAS 07-15-3)	TWA	10 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
lethoxyethanol (CAS 09-86-4)	TWA	0.1 ppm	
Norpholine (CAS 110-91-8)	TWA	20 ppm	
laphthalene (CAS 91-20-3)	TWA	10 ppm	
l-Ethylmorpholine (CAS 00-74-3)	TWA	5 ppm	
oluene (CAS 108-88-3)	TWA	20 ppm	
riethanolamine (CAS 02-71-6)	TWA	5 mg/m3	
rimethylbenzene (CAS 5551-13-7)	TWA	25 ppm	
(ylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
JS. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
,2,3-Trimethylbenzene	TWA	125 mg/m3	
CAS 526-73-8)		05	
O A Trive officelly assessed	T\A/A	25 ppm	
,2,4-Trimethylbenzene CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
,3,5-Trimethylbenzene	TWA	125 mg/m3	
CAS 108-67-8)		•	
		25 ppm	
9-C15 Heavy Aromatic lydrocarbons (CAS 4742-95-6)	TWA	400 mg/m3	
11142 30-0)		100 ppm	
Cumene (CAS 98-82-8)	TWA	245 mg/m3	
···· (2: 12 00 0 <b>2</b> 0)		50 ppm	
Diethanolamine (CAS	TWA	15 mg/m3	
11-42-2)		.o mg/mo	
		3 ppm	
Ethylenediamine (CAS 07-15-3)	TWA	25 mg/m3	
		10 ppm	
(erosene (CAS 8008-20-6)	TWA	100 mg/m3	
Methoxyethanol (CAS	TWA	0.3 mg/m3	
09-86-4)		0.4	
Annahalina (CAS 440 04 0)	CTEL	0.1 ppm	
Morpholine (CAS 110-91-8)	STEL	105 mg/m3	
	T14/4	30 ppm	
	TWA	70 mg/m3	
		20 ppm	
aphthalene (CAS 91-20-3)	STEL	75 mg/m3	

Components	Туре	Value	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
N-Ethylmorpholine (CAS 100-74-3)	TWA	23 mg/m3	
		5 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
Trimethylbenzene (CAS 25551-13-7)	TWA	125 mg/m3	
		25 ppm	
Xylene (CAS 1330-20-7)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	

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## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
Methoxyethanol (CAS 109-86-4)	1 mg/g	2-Methoxyaceti c acid	Creatinine in urine	*	
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*	
	0.03 mg/l	Toluene	Urine	*	
	0.02 mg/l	Toluene	Blood	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

## **Exposure guidelines**

#### US - California OELs: Skin designation

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

Naphthalene (CAS 91-20-3)

N-Ethylmorpholine (CAS 100-74-3)

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

## US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

N-Ethylmorpholine (CAS 100-74-3)

Toluene (CAS 108-88-3)

Skin designation applies.

Skin designation applies.

Skin designation applies.

#### **US - Tennessee OELs: Skin designation**

Cumene (CAS 98-82-8)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

N-Ethylmorpholine (CAS 100-74-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

## **US ACGIH Threshold Limit Values: Skin designation**

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Ethylenediamine (CAS 107-15-3)

Kerosene (CAS 8008-20-6)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

Naphthalene (CAS 91-20-3)

N-Ethylmorpholine (CAS 100-74-3)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Cumene (CAS 98-82-8)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

N-Ethylmorpholine (CAS 100-74-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

N-Ethylmorpholine (CAS 100-74-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with

organic vapor cartridge and full facepiece if threshold limits are exceeded.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Appearance Opaque Liquid

Physical state Liquid.
Form Aerosol.
Color White
Odor hydrocarbon

Odor threshold Not available.

**pH** 9 - 10

Melting point/freezing point 32 °F (0 °C) estimated

Initial boiling point and boiling

range

Not available.

Flash point > 201.0 °F (> 93.9 °C) Tag Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

2.4 % estimated

Flammability limit - upper

(%)

9.5 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Material name: HDD17 Gunk Heavy Duty All-Purpose Foaming Degreaser
HDD17/6 Version #: 02 Revision date: 03-25-2020 Issue date: 02-04-2020

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Emulsifiable

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 842 °F (450 °C) estimated

**Decomposition temperature** Not available. **Viscosity** < 10 cSt

Other information

Density 8.34 lbs/gal
Explosive properties Not explosive.

Heat of combustion (NFPA 7.2 kJ/g estimated

30B)

Kinematic viscosity < 10 cSt Kinematic viscosity 77 °F (25 °C)

temperature

Oxidizing properties Not oxidizing.

Specific gravity

VOC 9.5 % estimated

# 10. Stability and reactivity

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

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

**Conditions to avoid**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

## Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

1,2,3-Trimethylbenzene (CAS 526-73-8)

Acute Oral

LD50 Rat 8970 mg/kg

1,2,4-Trimethylbenzene (CAS 95-63-6)

Acute Dermal

LD50 Rabbit > 3160 mg/kg

Compon	ents	Species	Test Results
	Oral		
	LD50	Rat	6 g/kg
1,3,5-Trir	methylbenzene (CAS 108-6	67-8)	
	Acute		
	Oral		
	LD50	Rat	8970 mg/kg
			3280 mg/kg
Butoxydi	glycol (CAS 112-34-5)		
	Acute		
	Dermal		
	LD50	Rabbit	2700 mg/kg
	Oral		
	LD50	Rat	3306 mg/kg
C9-C15 I	Heavy Aromatic Hydrocarb	ons (CAS 64742-95-6)	
	Acute		
	Dermal		
	LD50	Rabbit	> 1900 mg/kg, 24 Hours
	Inhalation		<b>5 5</b>
	Vapor		
	LC50	Rat	> 4.96 mg/l, 4 Hours
	Oral		<b>3</b> . ,
	LD50	Rat	14060 mg/kg
			4820 mg/kg
Cumene	(CAS 98-82-8)		4020 Mg/Ng
	Acute		
	Dermal		
	LD50	Rabbit	> 3160 mg/kg, 24 Hours
	Inhalation	rabbit	o roo mg/kg, 2 r riodio
	Vapor		
	LC50	Mouse	10 mg/l, 7 Hours
	Oral		10 mg/i, 7 modic
	LD50	Rat	2260 mg/kg
	lamine (CAS 111-42-2)	rat	2200 Hig/kg
	· · · · · · · · · · · · · · · · · · ·		
	Acute Oral		
	LD50	Rat	710 mg/kg
			7 To mg/kg
	s (petroleum), Hydrotreated	1 Light (CA3 04/42-47-8)	
	Acute Dermal		
	LD50	Rabbit	> 2000 mg/kg, 24 Hours
	Inhalation	Rubbit	2000 mg/kg, 24 mours
	Vapor		
	LC50	Rat	> 4.5 mg/l, 4 Hours
	<b>-</b>	· ·	> 0.1 mg/l, 8 Hours
	Oral		- 0.1 mg/i, 0 modis
	Oral LD50	Rat	> 5000 mg/kg
		nat	> 5000 Hig/kg
	diamine (CAS 107-15-3)		
	Acute Darmal		
	Dermal LD50	Rabbit	560 mg/kg, 24 Hours
		INAUUIL	JUU IIIU/NU. 24 FIUUIS

Components	Species	Test Results
Inhalation		
Vapor		
LC50	Rat	7.35 mg/l, 8 Hours
Oral	D. (	500 //
LD50	Rat	500 mg/kg
Kerosene (CAS 8008-20-6)		
<u>Acute</u> Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation	rabbit	2000 Hig/kg, 24 Flours
Vapor		
LC50	Rat	> 0.1 mg/l, 8 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Methoxyethanol (CAS 109-86-4)		
Acute		
Dermal		
LD50	Rabbit	1280 mg/kg
Oral		
LD50	Rat	2257 mg/kg
Morpholine (CAS 110-91-8)		
<u>Acute</u>		
Oral		
LD50	Rat	1.05 g/kg
Naphthalene (CAS 91-20-3)		
Acute		
Dermal	D-bb:#	2 0 11/10
LD50	Rabbit	> 2 g/kg
Oral	Det	400
LD50	Rat	490 mg/kg
N-Ethylmorpholine (CAS 100-74-3) <u>Acute</u>		
<u>Acute</u> Oral		
LD50	Rat	1490 - 2120 mg/kg
Oleic Acid (CAS 112-80-1)	<del></del>	
Acute		
Dermal		
LD50	Guinea pig	> 3000 mg/kg
Oral		
LD50	Rat	74 g/kg
Sodium Nitrite (CAS 7632-00-0)		
<u>Acute</u>		
Oral		
LD50	Rat	85 mg/kg
Toluene (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation	D.1	40.500.0
LC50	Rat	12.5 - 28.8 mg/l, 4 Hours

Components Species Test Results

Oral

LD50 Rat 2.6 g/kg

Triethanolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 6400 mg/kg

Trimethylbenzene (CAS 25551-13-7)

<u>Acute</u> Oral

LD50 Rat 8970 mg/kg

Xylene (CAS 1330-20-7)

Acute Dermal

LD50 Rabbit 12130 mg/kg, 24 Hours

Inhalation

LC50 Rat 6350 mg/l, 4 Hours

Oral

LD50 Rat 3523 - 8600 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

**Carcinogenicity** May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

Morpholine (CAS 110-91-8) 3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3)

Triethanolamine (CAS 102-71-6)

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Cumene (CAS 98-82-8)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Test Results** Components **Species** 1,2,4-Trimethylbenzene (CAS 95-63-6) **Aquatic** Fish LC50 Fathead minnow (Pimephales promelas) 7.19 - 8.28 mg/l, 96 hours 1,3,5-Trimethylbenzene (CAS 108-67-8) **Aquatic** Fish LC50 Goldfish (Carassius auratus) 9.89 - 15.05 mg/l, 96 hours Alcohols, C9-11, ethoxylated (CAS 68439-46-3) **Aquatic** Crustacea EC50 Water flea (Daphnia magna) 2.9 - 8.5 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours Butoxydiglycol (CAS 112-34-5) **Aquatic** LC50 Fish Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours C9-C15 Heavy Aromatic Hydrocarbons (CAS 64742-95-6) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 8.8 mg/l, 96 hours (Oncorhynchus mykiss) 8.8 mg/l, 96 hours Cumene (CAS 98-82-8) **Aquatic** EC50 Crustacea Brine shrimp (Artemia sp.) 3.55 - 11.29 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 2.7 mg/l, 96 hours (Oncorhynchus mykiss) Diethanolamine (CAS 111-42-2) Aquatic Crustacea EC50 61.8 - 86.04 mg/l, 48 hours Water flea (Ceriodaphnia dubia) LC50 Fish Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours Fish LC50 Rainbow trout.donaldson trout 2.9 mg/l, 96 hours (Oncorhynchus mykiss) Ethylenediamine (CAS 107-15-3) Aquatic Fish LC50 Fathead minnow (Pimephales promelas) 98.6 - 131.6 mg/l, 96 hours Methoxyethanol (CAS 109-86-4) **Aquatic** Fish LC50 Bluegill (Lepomis macrochirus) > 10000 mg/l, 96 hours Morpholine (CAS 110-91-8) **Aquatic** LC50 Fish Zebra danio (Danio rerio) > 1 mg/l, 96 hours Naphthalene (CAS 91-20-3) **Aquatic** Crustacea EC50 Water flea (Daphnia magna) 1.09 - 3.4 mg/l, 48 hours Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 1.11 - 1.68 mg/l, 96 hours Oleic Acid (CAS 112-80-1) **Aquatic** 

Fathead minnow (Pimephales promelas) 205 mg/l, 96 hours

LC50

Fish

Components		Species	Test Results
Sodium Nitrite (CAS 763	2-00-0)		
Aquatic			
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
Triethanolamine (CAS 10	)2-71-6)		
Aquatic	ŕ		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

## **Bioaccumulative potential**

## Partition coefficient n-octanol / water (log Kow)

Butoxydiglycol	0.56
Cumene	3.66
Diethanolamine	-1.43
Ethylenediamine	-2.04
Methoxyethanol	-0.77
Morpholine	-0.86
Naphthalene	3.3
Propane	2.36
Toluene	2.73
Triethanolamine	-1
Xylene	3.12 - 3.2

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity), Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

**IATA** 

UN number UN1950

**UN proper shipping name** Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not available.

**Environmental hazards** Yes **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1950

**UN proper shipping name** AEROSOLS, MARINE POLLUTANT (Distillates (petroleum), Hydrotreated Light), Limited Quantity **Transport hazard class(es)** 

Class 2 Subsidiary risk -

Packing group Not available.

**Environmental hazards** 

Marine pollutant Yes
EmS F-D, S-U

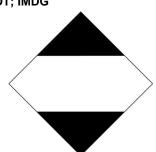
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Distillates (petroleum), Hydrotreated Light

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and the IBC Code

DOT: IMDG



Material name: HDD17 Gunk Heavy Duty All-Purpose Foaming Degreaser HDD17/6 Version #: 02 Revision date: 03-25-2020 Issue date: 02-04-2020

#### **IATA**



## Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Methoxyethanol (CAS 109-86-4)

Sodium Nitrite (CAS 7632-00-0)

1.0 % One-Time Export Notification only.

1.0 % One-Time Export Notification only.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Butoxydiglycol (CAS 112-34-5) Listed. Cumene (CAS 98-82-8) Listed. Diethanolamine (CAS 111-42-2) Listed. Ethylenediamine (CAS 107-15-3) Listed. Methoxyethanol (CAS 109-86-4) Listed. Morpholine (CAS 110-91-8) Listed. Naphthalene (CAS 91-20-3) Listed. N-Ethylmorpholine (CAS 100-74-3) Listed. Propane (CAS 74-98-6) Listed. Sodium Nitrite (CAS 7632-00-0) Listed. Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed.

## SARA 304 Emergency release notification

Ethylenediamine (CAS 107-15-3) 5000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

o, and the zero an						
Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
Ethylenediamine	107-15-3	5000	10000			

SARA 311/312 Hazardous Yes

chemical

Material name: HDD17 Gunk Heavy Duty All-Purpose Foaming Degreaser HDD17/6 Version #: 02 Revision date: 03-25-2020 Issue date: 02-04-2020

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation Respiratory or skin sensitization

Germ cell mutagenicity Carcinogenicity Aspiration hazard

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1,2,4-Trimethylbenzene	95-63-6	< 1	
Butoxydiglycol	112-34-5	1 - < 3	
Naphthalene	91-20-3	< 0.1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Butoxydiglycol (CAS 112-34-5)

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Methoxyethanol (CAS 109-86-4)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ethylenediamine (CAS 107-15-3)

Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

## Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Toluene (CAS 108-88-3) 6594

## Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Toluene (CAS 108-88-3) 594

## **US** state regulations

## **California Proposition 65**



WARNING: This product can expose you to chemicals including Diethanolamine, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cumene (CAS 98-82-8) Listed: April 6, 2010 Diethanolamine (CAS 111-42-2) Listed: June 22, 2012 Naphthalene (CAS 91-20-3) Listed: April 19, 2002

## California Proposition 65 - CRT: Listed date/Developmental toxin

Methoxyethanol (CAS 109-86-4) Listed: January 1, 1989 Toluene (CAS 108-88-3) Listed: January 1, 1991

## California Proposition 65 - CRT: Listed date/Male reproductive toxin

Methoxyethanol (CAS 109-86-4) Listed: January 1, 1989

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,2,3-Trimethylbenzene (CAS 526-73-8)

1,2,4-Trimethylbenzene (CAS 95-63-6)

1,3,5-Trimethylbenzene (CAS 108-67-8)

Butoxydiglycol (CAS 112-34-5)

C9-C15 Heavy Aromatic Hydrocarbons (CAS 64742-95-6)

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Ethylenediamine (CAS 107-15-3)

Kerosene (CAS 8008-20-6)

Methoxyethanol (CAS 109-86-4)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

Material name: HDD17 Gunk Heavy Duty All-Purpose Foaming Degreaser HDD17/6 Version #: 02 Revision date: 03-25-2020 Issue date: 02-04-2020

#### **International Inventories**

Country(s) or region

<b>3</b> \(\),	•	, , , , , , , , , , , , , , , , , , ,
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Inventory name

 Issue date
 02-04-2020

 Revision date
 03-25-2020

Version # 02

HMIS® ratings Health: 3\*

Flammability: 4 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 3 Instability: 0

NFPA ratings



**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

**Revision information** Physical & Chemical Properties: Multiple Properties

On inventory (yes/no)\*