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SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: HD-Mel
Product code	: 1017
1.2. Recommended use and restriction	ns on use
Recommended use	: Heavy-duty detergent
1.3. Supplier	
Synthetic Labs 24 Victory Lane Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122 www.syntecpro.com	
1.4. Emergency telephone number	
Emergency number	: Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053
SECTION 2: Hazard(s) identification	n
2.1. Classification of the substance or	mixture
GHS US classification	
Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage Causes serious eye damage
2.2. GHS Label elements, including pre	ecautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
· · · · · · · · · · · · · · · · · · ·	
Signal word (GHS US)	: Danger
	 Danger Causes severe skin burns and eye damage Causes serious eye damage
Signal word (GHS US)	: Causes severe skin burns and eye damage

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECT	SECTION 3: Composition/Information on ingredients	
3.1.	Substances	
Not applicable		

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Sodium hydroxide	(CAS-No.) 1310-73-2	20 – 30	Acute Tox. 1 (Oral), H300 Skin Corr. 1, H314 Eye Dam. 1, H318
Tetrasodium ethylenediaminetetraacetate	(CAS-No.) 64-02-8	1 – 5	Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECT	ION 4: First-aid measures		
4.1.	Description of first aid measures		
	id measures general	: Call a physician immediately.	
First-aid measures after inhalation		: Remove person to fresh air and keep comfortable for breathing.	
	id measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a	
	physician immediately.		
First-a	id measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.	
First-a	id measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.	
4.2.	Most important symptoms and effect	s (acute and delayed)	
Sympt	oms/effects after skin contact	: Burns.	
Sympt	oms/effects after eye contact	: Serious damage to eyes.	
Sympt	oms/effects after ingestion	: Burns.	
4.3.	Immediate medical attention and spe	cial treatment, if necessary	
Treat sy	mptomatically.		
SECT	ION 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguishi	ng media	
Suitab	le extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Specific hazards arising from the che	mical	
Hazar fire	dous decomposition products in case of	: Toxic fumes may be released.	
5.3.	Special protective equipment and pre	ecautions for fire-fighters	
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECT	ION 6: Accidental release meas	ures	
6.1.	Personal precautions, protective equ		
6.1.1.	For non-emergency personnel		
	ency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe	
Enterg		dust/fume/gas/mist/vapours/spray.	
6.1.2.	For emergency responders		
Protec	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2.	Environmental precautions		
Avoid re	elease to the environment.		
6.3.	Methods and material for containmer	it and cleaning up	
Metho	ds for cleaning up	: Take up liquid spill into absorbent material.	
	information	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
	ner information refer to section 13.		

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.	
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this prod Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities		

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HD-Mel	
No additional information available	
Tetrasodium ethylenediaminetetraacetate (64-02-8)	
No additional information available	
Sodium hydroxide (1310-73-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium hydroxide
ACGIH Ceiling (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT, eye, & skin irr
USA - OSHA - Occupational Exposure Limits	
Local name	Sodium hydroxide
OSHA PEL (TWA) (mg/m³)	2 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: red	
Odor	: odorless	
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Odor threshold	:	No data available	
рН	:	14	
pH solution	:	13.5 – 14	
Melting point	:	Not applicable	
Freezing point	:	No data available	
Boiling point	:	No data available	
Flash point	:	No data available	
Relative evaporation rate (butyl acetate=1)	:	No data available	
Flammability (solid, gas)	:	Not applicable.	
Vapor pressure	:	No data available	
Relative vapor density at 20 °C	:	No data available	
Relative density	:	No data available	
Specific gravity / density	:	1.04 g/m³	
Solubility	:	Soluble in water.	
Partition coefficient n-octanol/water (Log Pow)	:	No data available	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
Viscosity, kinematic	:	No data available	
Viscosity, dynamic	:	No data available	
Explosion limits	:	No data available	
Explosive properties	:	No data available	
Oxidizing properties	:	No data available	

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) : Not classified		
Acute toxicity (dermal) : Not classified		
Acute toxicity (inhalation) : Not classified		
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
LD50 oral rat > 2000 mg/kg (Rat, Oral)		
Skin corrosion/irritation : Causes severe skin burns. pH: 14		
Serious eye damage/irritation : Causes serious eye damage.		

pH: 14

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
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SECTION 12: Ecological information

12.1. Toxicity Ecology - general

: Before neutralisation, the product may represent a danger to aquatic organisms.

Tetrasodium ethylenediaminetetraacetate (64-02-8)		
LC50 fish 1 121 mg/l (96 h, Lepomis macrochirus, Literature study, Soft water)		
EC50 Daphnia 1 625 mg/l (24 h, Daphnia magna, Literature study)		
Sodium hydroxide (1310-73-2)		
LC50 fish 1 45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%)		
EC50 Daphnia 1	Daphnia 1 40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)	

12.2. Persistence and degradability

Tetrasodium ethylenediaminetetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O ₂ /g substance
Chemical oxygen demand (COD)	0.54 – 0.58 g O ₂ /g substance
Sodium hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Tetrasodium ethylenediaminetetraacetate (64-02-8)	
Partition coefficient n-octanol/water (Log Pow)	-2.6
Bioaccumulative potential	Not bioaccumulative.
Sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Not bioaccumulative.
I2.4. Mobility in soil	

Sodium hydroxide (1310-73-2)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations		
3.1. Disposal methods	· Disease of contents (contained in consultance with licensed collector's conting instructions	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
ECTION 14: Transport information		
Department of Transportation (DOT)		
In accordance with DOT		
Transport document description	: UN1760 Corrosive liquids, n.o.s. (Sodium Hydroxide), 8, II	
UN-No.(DOT)	: UN1760	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.	
	Sodium Hydroxide	
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Packing group (DOT)	: II - Medium Danger	
Hazard labels (DOT)	: 8 - Corrosive	
	CORROSIVE	
	8	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Symbols	: G - Identifies PSN requiring a technical name	
DOT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.	
	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal	
OOT Packaging Exceptions (49 CFR 173.xxx)	: 154	
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
Emergency Response Guide (ERG) Number	: 154	
Other information	: No supplementary information available.	
Fransportation of Dangerous Goods		
Not applicable		
ransport by sea		
ransport document description (IMDG)	: UN 1760 CORROSIVE LIQUID, N.O.S., 8, II	
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UN-No. (IMDG)	: 1760
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
Transport document description (IATA)	: UN 1760 Corrosive liquid, n.o.s., 8, II
UN-No. (IATA)	: 1760
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations		
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium hydroxide (1310-73-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ	1000 lb	
15.2. International regulations		
CANADA		
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
Listed on the Canadian DSL (Domestic Substances List)		

Sodium hydroxide (1310-73-2) Listed on the Canadian DSL (Domestic Substances List) EU-Regulations No additional information available National regulations No additional information available 15.3. US State regulations

Component	State or local regulations
Sodium hydroxide(1310-73-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Revision date	: 09/19/2019
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.