SAFETY DATA SHEET



1. Identification

Product identifier Terminator UHP

Other means of identification

SDS number 1197A Product code HIL05475

WAX AND FINISH REMOVER Recommended use

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer **Distributor**

HILLYARD-OHIO **Company Name** 545 Stimmel Road **Address** Columbus, OH 43223

Regulatory Affairs

Contact Telephone number (816) 233-1321 (Ext. 8285)

(816) 383-8485 Fax

regulatoryaffairs@hillyard.com email

(800)-424-9300 **Emergency Contact**

(Only in the event of chemical emergency involving a spill, leak, fire, exposure

or accident involving chemicals.)

2. Hazard(s) identification

Not classified. Physical hazards

Health hazards Acute toxicity, oral Category 4

> Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. **Hazard statement**

Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response If swallowed: Do not induce vomiting. Drink large quantities of water. Call a physician

> immediately. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Take off contaminated clothing

and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. **Storage**

Material name: Terminator UHP SDS US **Disposal**

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethylene glycol monobutyl ether		111-76-2	20 - < 30
Ethanol, 2-amino-		141-43-5	5 - < 10
SODIUM HYDROXIDE		1310-73-2	3 - < 5
Ethylene Glycol Monophenyl Ether		122-99-6	1 - < 3
Other components below reportable lev	vels		60 - < 70

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

observation. Symptoms may be delayed.

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. Call a physician or poison control center immediately.

Burning pain and severe corrosive skin damage. Headache. Nausea, vomiting. Causes serious

Permanent eye damage including blindness could result. Irritation of nose and throat. May cause

eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

respiratory irritation. Indication of immediate Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water medical attention and special immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under treatment needed

General information

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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

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. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: Terminator UHP SDS US 2/9

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3	
ŕ		3 ppm	
Ethylene glycol monobutyl	PEL	240 mg/m3	
ether (CAS 111-76-2)			
		50 ppm	
SODIUM HYDROXIDE	PEL	2 mg/m3	
(CAS 1310-73-2)			
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Ethylene glycol monobutyl ether (CAS 111-76-2)	TWA	20 ppm	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
Ethylene glycol monobutyl ether (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	

Material name: Terminator UHP SDS US

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethylene glycol monobutyl ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Ethylene glycol monobutyl ether (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Ethylene glycol monobutyl ether (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

Ethylene glycol monobutyl ether (CAS 111-76-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Ethylene glycol monobutyl ether (CAS 111-76-2)

Can be absorbed through the skin.

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

Ethylene glycol monobutyl ether (CAS 111-76-2)

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use

uniforms or coveralls. Wear impervious/slip resistant boots such as Hillyard Stripping Boots while

standing in the stripping solution.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor

cartridge.

Thermal hazards None known.

General hygiene considerations

Keep away from food and drink. 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.

9. Physical and chemical properties

Appearance Clear, yellow liquid

Physical state Liquid.
Form Liquid.
Color Yellow
Odor Solvent odor
Odor threshold Not available

pH 13 - 14 Concentrate

Melting point/freezing point Not Applicable / Not available

Initial boiling point and boiling 208 °F (97.78 °C)

range

Flash point

> 212.0 °F (> 100.0 °C) Tag Closed Cup

Evaporation rate < 1 ethyl ether=1
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Material name: Terminator UHP
HIL05475 Version #: 01 Issue date: 04-23-2015

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 15.8 mm Hg

Vapor density 1.8 Air = 1

Relative density 1.04 at 77° F

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

Other information

Density 8.67 lb/gal Percent volatile 84 - 85 %

VOC (Weight %) 5.41 % Diluted 1:4 27.07 % Concentrate

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with

incompatible materials.

Incompatible materials Strong acids. Acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns. Harmful in contact with skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Headache. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Irritation of nose and throat. May cause

respiratory irritation.

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. Harmful if inhaled. Harmful in contact with skin. Harmful if

swallowed. May cause respiratory irritation.

Material name: Terminator UHP sps us

Product	Species	Test Results	
Terminator UHP			
Acute			
Dermal			
LD50	Rabbit	62962.9648 ml/kg estimated	
		1333.1066 mg/kg estimated	
Inhalation			
LC50	Mouse	2585.8884 ppm, 7 Hours estimated	
	Rat	1662.3568 ppm, 4 Hours estimated	
Oral			
LD50	Guinea pig	4.433 g/kg estimated	
	Mouse	4.433 g/kg estimated	
	Rabbit	1.1821 g/kg estimated	
	Rat	2062.165 mg/kg estimated	
Components	Species	Test Results	

Ethylene Glycol Monophenyl Ether (CAS 122-99-6)

Acute Oral

LD50 Mouse 16500 mg/kg Rat 1260 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene glycol monobutyl ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Material name: Terminator UHP SDS US 6/9

^{*} Estimates for product may be based on additional component data not shown.

Product		Species	Test Results
Terminator UHP			
Aquatic			
Crustacea	EC50	Daphnia	1200.8064 mg/l, 48 hours estimated
Fish	LC50	Fish	1674.9095 mg/l, 96 hours estimated
Components		Species	Test Results

Ethylene Glycol Monophenyl Ether (CAS 122-99-6)

Aquatic

LC50 Fathead minnow (Pimephales promelas) 337 - 352 mg/l, 96 hours Fish

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylene Glycol Monophenyl Ether 1.16

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. Do not

> contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal 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. Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local

pretreatment requirements.

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

emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

14. Transport information

DOT

UN number NA1760

UN proper shipping name

Transport hazard class(es)

COMPOUNDS, CLEANING LIQUID (SODIUM HYDROXIDE, MONOETHANOLAMINE)

Class 8 Subsidiary risk 8 Label(s) Packing group

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

B2, IB2,N37,T11, TP2 Special provisions

Packaging exceptions None 202 Packaging non bulk 242 Packaging bulk **ERG** number 154

DOT



Material name: Terminator UHP SDS US

^{*} Estimates for product may be based on additional component data not shown.

General information This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping

instructions.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Ethanol, 2-amino- (CAS 141-43-5)

Ethylene glycol monobutyl ether (CAS 111-76-2)

SODIUM HYDROXIDE (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

Ethanol, 2-amino- (CAS 141-43-5)

Ethylene glycol monobutyl ether (CAS 111-76-2)

SODIUM HYDROXIDE (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol, 2-amino- (CAS 141-43-5)

Ethylene glycol monobutyl ether (CAS 111-76-2)

SODIUM HYDROXIDE (CAS 1310-73-2)

US. Rhode Island RTK

SODIUM HYDROXIDE (CAS 1310-73-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

*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).

Material name: Terminator UHP sps us

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

Issue date 04-23-2015

Version # 01

HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Material name: Terminator UHP SDS US