

SAFETY DATA SHEET

1. Identification

Product number	HIL0103655
Product identifier	Baseboard Stripper
Revision date	12-26-2014
Company information	HILLYARD INC 302 North 4th Street St. Joseph, MO 64501 United States
Company phone	816-383-8285
Version #	03
Supersedes date	12-23-2014
Recommended use	Cleaner
Recommended restrictions	None known.

2. Hazard(s) identification

Label elements

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Signal word	Danger
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled.
Precautionary statement	
Prevention	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 or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.
Response	If on skin: Wash with plenty of water. 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. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
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	%
2-Butoxyethanol		111-76-2	20 - 40
Butane		106-97-8	2.5 - 10
Propane		74-98-6	1 - 2.5
Pine Oil		8002-09-3	0.1 - 1
Other components below reportable	levels		60 - 80

*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.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Remove contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	If eye irritation persists: Get medical advice/attention.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center.
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. 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.
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	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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	Extremely flammable aerosol.
6. Accidental release meas	sures

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation protective equipment and of vapors and spray mists. Emergency personnel need self-contained breathing equipment. Do not emergency procedures 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. Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no Methods and materials for smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) containment and cleaning up away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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. 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	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 in eyes, on skin, or on clothing. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. 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. 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. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	, Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	Ies		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
,		5 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, p	lease see the sourc	e document.		
posure guidelines				
US - California OELs: SI	kin designation			
2-Butoxyethanol (CA	S 111-76-2)	Can be	absorbed throug	gh the skin.
US - Minnesota Haz Sub	os: Skin designatio	n applies		
2-Butoxyethanol (CA	S 111-76-2)	Skin de	signation applies	5.
US - Tennesse OELs: S	kin designation			
2-Butoxyethanol (CA	S 111-76-2)	Can be	absorbed throug	gh the skin.

US NIOSH Pocket Guide to C	Chemical Hazards: Skin design	nation
2-Butoxyethanol (CAS 111-76-2)		Can be absorbed through the skin.
US. OSHA Table Z-1 Limits f	or Air Contaminants (29 CFR ²	1910.1000)
2-Butoxyethanol (CAS 11	2-Butoxyethanol (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 e	quipment
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.	
Hand protection	Wear protective gloves.	
Skin protection		
Other	Wear suitable protective clothin	ng.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	after handling the material and	vays observe good personal hygiene measures, such as washing before eating, drinking, and/or smoking. Routinely wash work ent to remove contaminants. Contaminated work clothing should not e.

9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Aerosol. Liquefied gas.	
Color	Light brown. Tan.	
Odor	Solvent.	
Odor threshold	Not available.	
рН	11.5 - 12.5	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	189.02 °F (87.24 °C) estimated	
Flash point	-156.0 °F (-104.4 °C) Propellant estimated	
Evaporation rate	Not available.	
Flammability (solid, gas) Not available.		
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	55 - 75 psig @25C estimated	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	446 °F (230 °C) estimated	
Decomposition temperature	Not available.	
Viscosity	Not available.	

Product name: Baseboard Stripper

Other information	
Specific gravity	

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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, sparks and open flame. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.			
Inhalation	Harmful if inhaled.			
Skin contact	Causes skin irritation. May cause an allergic skin reaction.			
	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.			
Eye contact	Causes serious eye irritation.			
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.			

Information on toxicological effects

Acute toxicity	Harmful if inhaled. May cause an	allergic skin reaction.			
Components	Species	Test Results			
2-Butoxyethanol (CAS 111	-76-2)				
Acute					
Dermal					
LD50	Guinea pig	230 ml/kg, 24 Hours			
		7.3 ml/kg, 4 Days			
	Rabbit	450 ml/kg, 24 Hours			
		435 mg/kg, 24 Hours			
		0.63 ml/kg			
	Rat	> 2000 mg/kg, 24 Hours			
Inhalation					
LC50	Rabbit	400 ppm, 7 Hours			
	Rat	450 ppm, 4 Hours			
Oral					
LD100 Rabbit		695 mg/kg			
LD50	Dog	> 695 mg/kg			
	Guinea pig	1200 mg/kg			
	Rat	530 - 2800 mg/kg			
Butane (CAS 106-97-8)					
Acute					
Inhalation					
LC50	Mouse	1237 mg/l, 120 Minutes			
		52 %, 120 Minutes			
	Rat	1355 mg/l			

Components	Species	Test Results				
Propane (CAS 74-98-6)						
Acute						
Inhalation						
LC50	Mouse	1237 mg/l, 120 Minutes				
		52 %, 120 Minutes				
	Rat	1355 mg/l				
		658 mg/l/4h				
* Estimates for product may b	e based on additional component data not shown					
Skin corrosion/irritation	Causes skin irritation.					
Serious eye damage/eye irritation	Causes serious eye irritation.					
Respiratory or skin sensitizatio	n					
Respiratory sensitization	Not available.	Not available.				
Skin sensitization	May cause an allergic skin reaction.					
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					
2-Butoxyethanol (CAS 1 ⁻ OSHA Specifically Regulate Not listed.	11-76-2) 3 Not classifiab ad Substances (29 CFR 1910.1001-1050)	le as to carcinogenicity to humans.				
Reproductive toxicity	This product is not expected to cause reproduc	tive or developmental effects.				
Specific target organ toxicity - single exposure	Not classified.					
Specific target organ toxicity - repeated exposure	Not classified.					
Aspiration hazard	Not available.					
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.					
	2-Butoxy ethanol may be absorbed through the prolonged. These effects have not been obser	skin in toxic amounts if contact is repeated and ved in humans.				

12. Ecological information

Ecotoxicity	Harmful to a	iquatic life.			
Components		Species	Test Results		
2-Butoxyethanol (CAS 111-7	6-2)				
Aquatic					
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours		
* Estimates for product may	be based on ad	lditional component data not shown.			
Persistence and degradability	No data is a	vailable on the degradability of this produc	t.		
Bioaccumulative potential	No data available.				
Partition coefficient n-octa	nol / water (log	g Kow)			
2-Butoxyethanol		0.83			
Butane	2.89				
Propane	2.36				
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	Consult authorities before disposal. 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. 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)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

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101	~	
	UN number	UN1950
	UN proper shipping name	Aerosols, flammable
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	Yes
	ERG Code	10L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed.
	Cargo aircraft only	Allowed.
	Packaging Exceptions	LTD QTY
IMD)G	
	UN number	UN1950
	UN proper shipping name	AEROSOLS
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	
	Marine pollutant	Yes

F-D, S-U

Not applicable.

EmS

Packaging Exceptions Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code DOT

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



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. 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)				
Not listed.				
SARA 304 Emergency relea	se notification			
Not regulated.				
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)			
Not listed.				
Superfund Amendments and Re	authorization Act of 1986 (SARA)			
Hazard categories	Immediate Hazard - Yes			
	Delayed Hazard - No			
	Fire Hazard - Yes			
	Pressure Hazard - Yes			
	Reactivity Hazard - No			

SARA 302 Extremely hazardous substance

SARA 302 Extremely Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Anhydrous Ammonia	7664-41-7	100	500 lbs		
Ethylene Oxide SARA 311/312 Hazard chemical	75-21-8 ous No	10	1000 lbs		
SARA 313 (TRI reporti	ina)				
Chemical name			CAS number	% by wt.	
Ethylene Glycol 1,4-Dioxane Ethylene Oxide			107-21-1 123-91-1 75-21-8	0.1 - 1 0.01 - 0.1 0.01 - 0.1	
er federal regulations					
Clean Air Act (CAA) S	ection 112 Hazard	lous Air Polluta	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) S				8.130)	
Butane (CAS 106-9 Propane (CAS 74-9					
Safe Drinking Water A (SDWA)	Act Not regulat	ted.			
state regulations					
US. Massachusetts R		st			
2-Butoxyethanol (C Butane (CAS 106- Propane (CAS 74-	97-8)				
US. New Jersey Work		/ Right-to-Know	/ Act		
2-Butoxyethanol (C Butane (CAS 106- Pine Oil (CAS 800) Propane (CAS 74-	97-8) 2-09-3)				
US. Pennsylvania Wo		ity Right-to-Kno	ow Law		
2-Butoxyethanol (C Butane (CAS 106-9 Propane (CAS 74-9	97-8)				
US. Rhode Island RTM	,				
Butane (CAS 106-9 Propane (CAS 74-9					
US. California Propos WARNING: This pr reproductive harm.	roduct contains a cl	nemical known tc	o the State of California	to cause cancer and bi	irth defects or other
US - California Pr	oposition 65 - CR	T: Listed date/C	arcinogenic substanc	e	
Ethylene Oxid	CAS 123-91-1) e (CAS 75-21-8) oposition 65 - CRT	Γ: Listed date/D	Listed: January 1, Listed: July 1, 198 evelopmental toxin		
	e (CAS 75-21-8) oposition 65 - CR	Γ: Listed date/Fe	Listed: August 7, 2 emale reproductive to		
US - California Pr		Г: Listed date/M	Listed: February 2 ale reproductive toxi		
Ethylene Oxid	e (CAS 75-21-8)		Listed: August 7, 2	2009	
rnational Inventories					
Country(s) or region	Inventory				On inventory (yes/no)
Australia	Australian	Inventory of Che	mical Substances (AIC	S)	N
Canada	Domestic S	Substances List ((DSL)		Yes
Canada	Non Domo	stic Substances	List (NDSL)		No
Callada	Non-Dome	Suc Substances	LIST (INDSL)		

Country(s) or region	Inventory name	On inventory (yes/no)*
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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).

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

Issue date Revision date Version #	12-16-2014 12-26-2014 03
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	Transport Information: Material Transportation Information