

# SAFETY DATA SHEET

### 1. Identification

Product number	HIL0113155
Product identifier	HEAVY DUTY MULTI-PURPOSE CLEANER
Revision date	07-02-2018
Company information	HILLYARD INC 302 North 4th Street St. Joseph, MO 64501 United States
Company phone	816-383-8285
Emergency telephone US	1-800-424-9300
Version #	03
Supersedes date	06-26-2018
Recommended use	CLEANER
Recommended restrictions	None known.

### 2. Hazard(s) identification

Label elements

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Serious eye damage/eye irritation	Category 2
OSHA defined hazards	Not classified.	

Signal word Warning Hazard statement Contains gas under pressure; may explode if heated. Causes serious eye irritation. **Precautionary statement** Prevention Wash thoroughly after handling. Wear eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Protect from sunlight. Store in a well-ventilated place. Storage Disposal Dispose of waste and residues in accordance with local authority requirements. Hazard(s) not otherwise None known. classified (HNOC) Supplemental information None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Butane		106-97-8	1 - 2.5
EDTA Tetrasodium Salt		64-02-8	1 - 2.5
Propane		74-98-6	0.1 - 1
Other components below repo	rtable levels		90 - 100

Other components below reportable levels

\*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.

Wash off with soap and water. Get medical attention if irritation develops and persists.
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
None known.
During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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.
Use standard firefighting procedures and consider the hazards of other involved materials.
Contents under pressure. Pressurized container may explode when exposed to heat or flame.
sures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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.
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. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. For waste disposal, see section 13 of the SDS.
Avoid discharge into drains, water courses or onto the ground.
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. Ground and bond containers when transferring material. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. 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 A 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	es		
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	mical 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 source	e document.		

#### Exposure guidelines

1 5	
US - California OELs: Skin designation	
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US - Minnesota Haz Subs: Skin designation applies	
2-Butoxyethanol (CAS 111-76-2)	Skin designation applies.
US - Tennessee OELs: Skin designation	
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US NIOSH Pocket Guide to Chemical Hazards: Skin des	gnation
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CF	R 1910.1000)
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
controls should be matched to condit or other engineering controls	bically 10 air changes per hour) should be used. Ventilation rates ions. If applicable, use process enclosures, local exhaust ventilation, is to maintain airborne levels below recommended exposure limits. If en established, maintain airborne levels to an acceptable level. Provide
Individual protection measures, such as personal protective	equipment

#### **Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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.

# 9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Aerosol. Liquefied gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	212 °F (100 °C) estimated
range	
Flash point	-156.0 °F (-104.4 °C) PROPELLANT estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	473 °F (245 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Aerosol spray enclosed spa	се
Deflagration density	1422 - 1450 g/m³
Time equivalent	1500 s/m³
Aerosol spray ignition distance	< 15 cm No Ignition
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.986 estimated
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### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. 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	No adverse effects due to inhalation are expected.
Skin contact	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.
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.
1.6	

### Information on toxicological effects

### Acute toxicity

Components	Species	Test Results
2-Butoxyethanol (CAS 111-7	6-2)	
Acute		
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days
		0.23 ml/kg, 24 Hours
	Rabbit	435 mg/kg, 24 Hours
		0.68 ml/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	1414 mg/kg
	Mouse	1519 mg/kg
	Rat	1746 mg/kg
Butane (CAS 106-97-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l

Components	Species	Test Results	
EDTA Tetrasodium Salt (CAS 64-	02-8)		
Acute			
Oral			
LD50	Rat	1658 mg/kg	
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	Prolonged skin contact may cause temporary irritat	on.	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization	ition.	
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 11		to carcinogenicity to humans.	
Not regulated.	d Substances (29 CFR 1910.1001-1050)		
	ogram (NTP) Report on Carcinogens		
Not listed.	- J /		
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 likely, due to the form of the product.		
Chronic effects	May be harmful if absorbed through skin.		
	2-Butoxy ethanol may be absorbed through the skir prolonged. These effects have not been observed		
12. Ecological information	1		
Ecotoxicity	The product is not classified as environmentally has possibility that large or frequent spills can have a har		

	5 1 1	nful or damaging effect on the environmen
	Species	Test Results
5 111-76-2)		
LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
alt (CAS 64-02-8)		
IC50	Algae	1.01 mg/L, 72 Hours
LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
	LC50 alt (CAS 64-02-8) IC50	LC50 Inland silverside (Menidia beryllina) alt (CAS 64-02-8) IC50 Algae

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.

### **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)		
2-Butoxyethanol	0.83	
Butane	2.89	
Propane	2.36	
Mobility in soil	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. 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

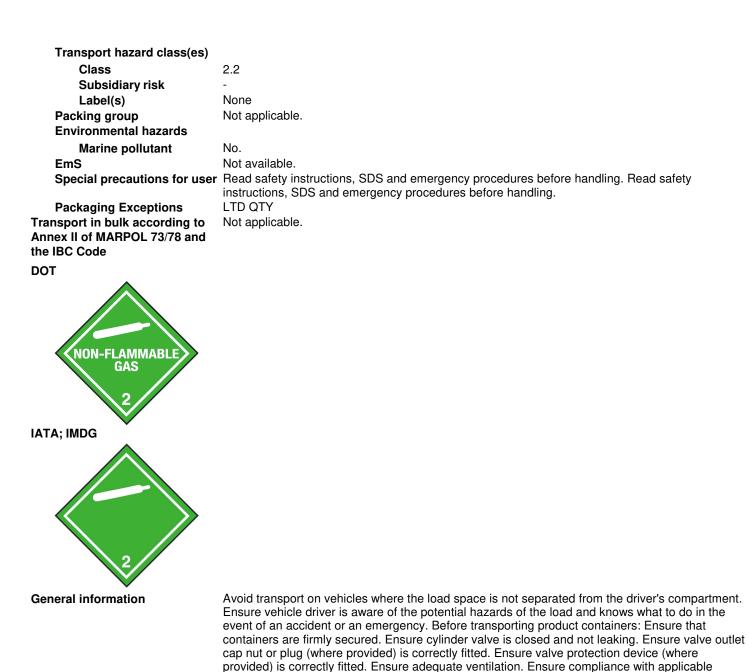
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UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
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.

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IAI	A	
	UN number	UN1950
	UN proper shipping name	Aerosols, non-flammable
	Transport hazard class(es)	
	Class	2.2
	Subsidiary risk	-
	Label(s)	2.2
	Packing group	Not applicable.
	Environmental hazards	No.
	ERG Code	2L
	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 with restrictions.
	Cargo aircraft only	Allowed with restrictions.
	Packaging Exceptions	LTD QTY
IMI	DG	
	UN number	UN1950
	UN proper shipping name	AEROSOLS

Product name: HEAVY DUTY MULTI-PURPOSE CLEANER



### 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)

regulations.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and F Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No	ARA)		
SARA 302 Extremely haza Not listed.	rdous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
2-Butoxyethanol		111-76-2	2.5 - 10	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutan	ts (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Release F	revention (40 CFR	68.130)	
Butane (CAS 106-97-8) Propane (CAS 74-98-6)				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. California Controlled S	Substances. CA Department o	f Justice (Californi	a Health and Safety Coo	le Section 11100)
	Chemicals List. Safer Consum	er Products Regul	ations (Cal. Code Regs	tit. 22, 69502.3, subd.
(a)) 2-Butoxyethanol (CAS				
Butane (CAS 106-97-8) US. Massachusetts RTK -				
2-Butoxyethanol (CAS <sup>-</sup> Butane (CAS 106-97-8) Propane (CAS 74-98-6)				
	d Community Right-to-Know	Act		
2-Butoxyethanol (CAS <sup>-</sup> Butane (CAS 106-97-8) Propane (CAS 74-98-6)				
	and Community Right-to-Know	v Law		
2-Butoxyethanol (CAS Butane (CAS 106-97-8) Propane (CAS 74-98-6) <b>US. Rhode Island RTK</b>	11-76-2)			
Butane (CAS 106-97-8) Propane (CAS 74-98-6)				
US. California Proposition				
California Safe Drinking	Water and Toxic Enforcement listed as carcinogens or reproc		ition 65): This material is	not known to contain
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Cher	nical Substances (A	ICS)	Yes
Canada	Domestic Substances List (I	DSL)		No
Canada	Non-Domestic Substances I	list (NDSL)		No
China	Inventory of Existing Chemic	al Substances in Cl	nina (IECSC)	Yes
Europe	European Inventory of Exist Substances (EINECS)	ng Commercial Che	emical	No
Europe	European List of Notified Ch	emical Substances	(ELINCS)	No
Japan	Inventory of Existing and Ne			Yes
Korea	Existing Chemicals List (EC			No

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

\*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	04-24-2018
Revision date	07-02-2018
Version #	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	Product and Company Identification: Alternate Trade Names GHS: Classification