

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: HEAVY DUTY MULTI-PURPOSE CLEANER - HIL0113155

Other means of identification SDS number: RE1000025339

Recommended restrictions Recommended use: Cleaner Restrictions on use: Not known.

Manufacturer Information

Manufacturer	
Company Name:	HILLYARD INC
Address:	302 North 4th Street
	St. Joseph,MO 64501
	US
Telephone:	1-816-383-8285

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Gases under pressure	Compressed gas	
Health Hazards		
Serious Eye Damage/Eye Irritation	Category 2A	

Environmental Hazards

Acute hazards to the aquatic environment

Label Elements

Hazard Symbol:



Signal Word:WarningHazard Statement:Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Toxic to aquatic life.

Category 2

HILLYARD
2000000000000
The Cleaning Resource®

Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage:	Protect from sunlight. Store in a well-ventilated place.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Alcohols, C9-11, ethoxylated	68439-46-3	1 - <3%
Butane	106-97-8	1 - <5%
Propane	74-98-6	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.		
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
Personal Protection for First- aid Responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.		
Most important symptoms/offects, acute and delayed			

Most important symptoms/effects, acute and delayed

Symptoms:	No data available.
Hazards:	No data available.



Indication of immediate medical attention and special treatment needed

	Cat madical attention if automatema accur			
Treatment:	Get medical attention if symptoms occur.			
5. Fire-fighting measures				
General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.			
Suitable (and unsuitable) exting	guishing media			
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.			
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical:	Vapors may travel considerable distance to a source of ignition and flash back.			
Special protective equipment a	nd precautions for firefighters			
Special fire fighting procedures:	No data available.			
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.			
6. Accidental release measur	es			
6. Accidental release measur Personal precautions, protective equipment and emergency procedures:	es Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.			
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Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you			
Personal precautions, protective equipment and emergency procedures: Accidental release measures: Methods and material for containment and cleaning	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Absorb spill with vermiculite or other inert material, then place in a container			
Personal precautions, protective equipment and emergency procedures: Accidental release measures: Methods and material for containment and cleaning up:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.			
Personal precautions, protective equipment and emergency procedures: Accidental release measures: Methods and material for containment and cleaning up: Environmental Precautions:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.			
 Personal precautions, protective equipment and emergency procedures: Accidental release measures: Methods and material for containment and cleaning up: Environmental Precautions: 7. Handling and storage 	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.			



Contact avoidance measures:	No data available.
Storage	
Safe storage conditions:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1
Safe packaging materials:	No data available.
Storage Temperature:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values		Source US. ACGIH Threshold Limit Values, as amended	
Ethanol, 2-butoxy-	TWA				
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended	
	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
Acetic acid, phenylmethyl ester	TWA	10 ppm		US. ACGIH Threshold Limit Values, as amended	
Sodium hydroxide (Na(OH))	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values, as amended	
	Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Benzene, 1,1'-oxybis Vapor.	STEL	2 ppm		US. ACGIH Threshold Limit Values, as amended	
	TWA	1 ppm		US. ACGIH Threshold Limit Values, as amended	
	REL	1 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	TWA	1 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	PEL	1 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
Phenol, 2,6-bis(1,1- dimethylethyl)-4-methyl Inhalable fraction and vapor.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values, as amended	
Phenol, 2,6-bis(1,1- dimethylethyl)-4-methyl-	REL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	



TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL
Cedrene (1-Hydroxypyrene, with hydrolysis (1-HP): Sampling time: End of shift at end of work week.)	2.5 μg/l (Urine)	ACGIH BEL
Cedrene (3-Hydroxybenzo(a)pyrene, with hydrolysis: Sampling time: End of shift at end of work week.)	(Urine)	ACGIH BEL

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	No data available.
Skin and Body Protection:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke.

9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	-104.44 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	Estimated 9.5 %(V)
Explosive limit - lower (%):	Estimated 1.9 %(V)
Vapor pressure:	Estimated 2,757 - 4,136 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.



Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 46,153.85 mg/kg
Dermal Product:	ATEmix: 17,631.51 mg/kg
Inhalation Product:	ATEmix: 528.68 mg/l Vapour ATEmix : 132.17 mg/l Dusts, mists and fumes
Repeated dose toxicity Product:	No data available.



Components:	
Ethanol, 2-butoxy-	NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation Experimental result, Key study
	NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key study
	NOÁEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal Experimental result, Key study
Alcohols, C9-11,	NOAEL (Rat(Female, Male), Oral, 90 d): >= 500 mg/kg Oral Read-across
ethoxylated Butane	based on grouping of substances (category approach), Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation
	Experimental result, Key study
	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation
·	Experimental result, Key study
	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Skin Corrosion/Irritation	
Product:	No data available.
Components:	
Ethanol, 2-butoxy- Alcohols, C9-11,	in vivo (Rabbit): Irritating in vivo (Rabbit): Not irritant
ethoxylated	
Serious Eye Damage/Eye Irritati	on
Product:	No data available.
Components: Ethanol, 2-butoxy-	Rabbit, 24 - 72 hrs: Irritating
Respiratory or Skin Sensitization Product:	n No data available.
Components:	Skin consistent in vive (Quince nig). Non consistent
Ethanol, 2-butoxy-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Carcinogenicity Product:	No data available.
IARC Monographs on the Evalua	ation of Carcinogenic Risks to Humans:
No carcinogenic component	
US. National Toxicology Program No carcinogenic component	n (NTP) Report on Carcinogens: s identified
US. OSHA Specifically Regulate No carcinogenic component	d Substances (29 CFR 1910.1001-1050), as amended: s identified
Germ Cell Mutagenicity	
In vitro	
Product:	No data available.
In vivo	
Product:	No data available.
Reproductive toxicity	
Product:	No data available.



Specific Target Organ T Product:	oxicity - Single Exposure No data available.	
Specific Target Organ T Product:	oxicity - Repeated Exposure No data available.	
Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	
12. Ecological information	ion	
Ecotoxicity:		

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Components: Ethanol, 2-butoxy-	LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study
Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Aquatic Invertebrates Product:	No data available.
Components: Ethanol, 2-butoxy-	EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study
Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Chronic hozarda to the equati	o onvironment.

Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Components: Ethanol, 2-butoxy-	NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study
Alcohols, C9-11, ethoxylated	NOAEL (Pimephales promelas): 0.16 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study
Aquatic Invertebrates Product:	No data available.
Components: Ethanol, 2-butoxy-	EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study
Alcohols, C9-11, ethoxylated	NOAEL (Daphnia magna): 1.75 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study
Toxicity to Aquatic Plants Product:	No data available.



Persistence and Degradability

Biodegradation Product:	No data available.
Components: Ethanol, 2-butoxy-	90.4 % Detected in water. Experimental result, Key study
Alcohols, C9-11, ethoxylated	100 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
Butane	100 % (385.5 h) Detected in water. Experimental result, Key study
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.
Components: Alcohols, C9-11, ethoxylated	Pimephales promelas, Bioconcentration Factor (BCF): 237 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Key study
Partition Coefficient n-octanol / v Product:	vater (log Kow) No data available.
Components: Alcohols, C9-11, ethoxylated	Log Kow: 3.3 - 3.73 Yes QSAR, Weight of Evidence study
Mobility in soil:	No data available.
Components: Ethanol, 2-butoxy- Alcohols, C9-11, ethoxylate Butane Propane	No data available. ed No data available. No data available. No data available.
Other adverse effects:	Toxic to aquatic organisms.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	No data available.



14. Transport information

DOT	
UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable
Transport Hazard Class(es)	
Class: Label(s):	2.2
EmS No.:	_
Packing Group:	П
Special precautions for user:	Not regulated.
ΙΑΤΑ	
UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable
Transport Hazard Class(es): Class:	2.2
Label(s):	Z.Z
Packing Group: Special precautions for user:	– Not regulated.
Other information	Not regulated.
Passenger and cargo aircraft:	Allowed. 203
Cargo aircraft only:	Allowed. 203
IMDG	
UN Number:	UN 1950
UN Proper Shipping Name: Transport Hazard Class(es)	Aerosols, non-flammable
Class:	2
Label(s):	_
EmS No.:	F-D, S-U
Packing Group:	_
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

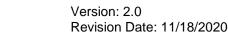
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity GLYCOL ETHERS UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY RCRA HAZARDOUS WASTE NO. D001 AMMONIUM HYDROXIDE SODIUM HYDROXIDE POLYNUCLEAR AROMATIC HYDROCARBONS POLYCYCLIC ORGANIC MATTER





Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable aerosol, Gases under pressure, Serious Eye Damage/Eye Irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity	<u>% by weight</u>	
Ethanol, 2-butoxy-	1.0%	

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

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act **Chemical Identity** Ethanol, 2-butoxy-Butane

US. Massachusetts RTK - Substance List Chemical Identity

Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

US. Pennsylvania RTK - Hazardous Substances Chemical Identity Ethanol, 2-butoxy-

Butane

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol Not applicable

Stockholm convention Not applicable

Rotterdam convention Not applicable

Kyoto protocol

Not applicable



In	ventory Status: Canada DSL Inventory List	On or in compliance with the inventory
	EINECS, ELINCS or NLP	Not in compliance with the inventory.
	Japan (ENCS) List	Not in compliance with the inventory.
	Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
	Canada NDSL Inventory	Not in compliance with the inventory.
	US TSCA Inventory	On or in compliance with the inventory
	New Zealand Inventory of Chemicals	Not in compliance with the inventory.
	Japan ISHL Listing	Not in compliance with the inventory.
	Japan Pharmacopoeia Listing	Not in compliance with the inventory.
	Mexico INSQ	Not in compliance with the inventory.
	Australia AICS	On or in compliance with the inventory
	China Inv. Existing Chemical Substances	On or in compliance with the inventory
	Philippines PICCS	On or in compliance with the inventory
	Ontario Inventory	On or in compliance with the inventory
	Taiwan Chemical Substance Inventory	On or in compliance with the inventory

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

Issue Date:	11/18/2020
Revision Information:	No data available.
Version #:	2.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.