



EcoLine™ Cleaner/Degreaser

General Purpose Degreaser

1620

Introduction

This Cleaner/Degreaser is designed for cleaning electronic and electrical equipment, machinery and metal parts. Its rapid evaporation and complete compatibility with plastics make it the perfect choice for light duty cleaning.

Features / Benefits

- EPA SNAP Approved
- Non-Ozone Depleting
- Safe on Plastics
- Zero Residue
- Rapidly Evaporating
- Non-Corrosive

Physical Properties

Boiling Point	52°C / 136.5°F
Flash Point (TCC)	-15°F
Evaporation Rate	>1
Surface Tension	
Kauri-Butanol (KB Value)	

Chemical Components

Isopropanol.....	(67-63-0)	8-12%
Denatured Alcohol.....	(64-17-5)	18-25%
2-Methyl-2-Propanol.....	(75-65-0)	<<1%
Carbon Dioxide.....	(124-38-9)	1-4%
Hexane Isomers Consisting of:		
n-Hexane.....	(110-54-3)	39-43%
Methylcycle pentane.....	(96-37-7)	8-10%
Methyl pentane.....	varies	12-18%
Acetic Acid, Propyl Ester.....	(109-60-4)	< 3%

Plastic Compatibility

Material	Compatibility	Material	Compatibility
ABS	Excellent	PMMA	Excellent
Nylon	Excellent	POM	Excellent
Lexan	Excellent	PP	Excellent
HDPE	Excellent	PS	Excellent
CDPE	Excellent	PTFE	Excellent
C. E. Phenolic	Excellent	PVC	Excellent

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Packaging and Availability

EcoLine™ Cleaner/Degreaser may be ordered in the following container sizes:

1620-10S	10 Ounce Aerosol
1620-13S	13 Ounce Aerosol

MATERIAL SAFETY DATA SHEET



MSDS No: 1620-A CARB compliant

ECOLINE Blue Shower - CARB compliant

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ECOLINE Blue Shower - CARB compliant
PRODUCT DESCRIPTION: Maintenance Cleaner
PRODUCT CODE: 1620-10S,-13S/CAN CARB compliant
ACTIVE INGREDIENT(S): 2-Propanol; Ethanol

MANUFACTURER

Techspray, L.P.

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"F" - Highly flammable
R11 - Highly flammable.
"Xn" - Harmful
R20/22 - Harmful by inhalation and if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Transparent, colorless liquid.

IMMEDIATE CONCERNS: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Causes skin irritation. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

EYES: Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

SKIN: Prolonged or repeated skin contact may cause irritation.

INGESTION: This material may be harmful or fatal if swallowed.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Liquid splashed in the eye may cause redness, irritation and conjunctivitis.

SKIN: Prolonged or exposure may cause skin irritation.

INGESTION: Swallowing of this material may result in nausea, vomiting and weakness followed by central nervous system depression.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

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ACUTE TOXICITY: Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: Contains Methanol which has been established as a teratogen by inhalation. See Sec.11 for details.

TARGET ORGAN STATEMENT: Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
n-Heptane	50 - 65	142-82-5	
2-Propanol	7 - 15	67-63-0	200-661-0
Ethanol	10 - 20	64-17-5	200-578-6
Methanol	1 - 3	67-56-1	200-659-6
n-Propyl acetate	< 1	109-60-4	2036861
1,1-difluoroethane (HFC-152a)	20 - 30	75-37-6	

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (22°F) TAG CC

Notes: Non-propellant material ("cold fill") only.

FLAMMABLE LIMITS: 1.1 (Heptane) to 6.7 (Heptane)

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
n-Heptane	TWA	400 ppm		400 ppm			
2-Propanol	TWA	400 ppm	980 mg/m ³	400 ppm	983 mg/m ³	NL ^[1]	NL ^[1]
	STEL	500 ppm	1225 mg/m ³	500 ppm	1230 mg/m ³	NL	NL
Ethanol	TWA	1000 ppm	1900 mg/m ³	1000 ppm	1880 mg/m ³	NL	NL
	STEL	NL ppm	NL mg/m ³	NL ppm	NL mg/m ³	NL	NL
Methanol	TWA	S 200 ppm ^[2]	260 mg/m ³ ^[2]	S 200 ppm	262 mg/m ³	NL ppm	NL mg/m ³
	STEL	250 ppm	310 mg/m ³	250 ppm	328 mg/m ³	NL ppm	NL

OSHA TABLE COMMENTS:
1. NL = Not Listed
2. S = Skin

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: For prolonged or repeated use, wear nitrile, neoprene, or natural rubber gloves.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point	Boiling Point (°C)	Specific Gravity
2-Propanol	53.6	82.4	0.785

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ODOR: Characteristic odor.

APPEARANCE: Clear, Colorless liquid

pH: Not Applicable

PERCENT VOLATILE: 100 at 20°C (68°F)

VAPOR PRESSURE: 55.49 mmHg@20C (VOC Composite Vapor Pressure)

BOILING POINT: Not Determined

FREEZING POINT: Not Applicable

MELTING POINT: Not Applicable

FLASHPOINT AND METHOD: (22°F) TAG CC

Notes: Non-propellant material ("cold fill") only.

SOLUBILITY IN WATER: to 32 at 20°C (68°F)

EVAPORATION RATE: > 1 (TCE=1)

DENSITY: 0.713g/mL at 25°C

VISCOSITY: Not Applicable

(VOC): 75.000 % by weight

Notes: Meets VOC requirements for CARB Category: Electronic Cleaner

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Stable. However, may decompose if heated.

INCOMPATIBLE MATERIALS: Incompatible with alkali or alkaline earth metals - powdered Al, Zn, Be, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Methanol	6.2 to 12.98 mg/kg	16 g/kg	64000 ppm
n-Propyl acetate	9370 mg/kg	> 20 ml/kg	8000 ppm

DERMAL LD₅₀: Slight to very low toxicity.

ORAL LD₅₀: Practically non-toxic to animals. However, based on reports of human exposure to Methanol, a small amount (usually two or more ounces) can cause mental sluggishness, nausea and

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Chemical Name	Wt.%	CERCLA RQ
Methanol	1 - 3	1* lbs.

CERCLA RQ: Methanol has an RQ of 5000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
2-Propanol	67-63-0
Ethanol	64-17-5
Methanol	67-56-1
n-Propyl acetate	109-60-4
1,1-difluoroethane (HFC-152a)	75-37-6

TSCA REGULATORY: This product is listed on the TSCA Inventory.

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE

PREVENTION: Methanol (CAS# 67-56-1)

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

RCRA STATUS: D001

OSHA HAZARD COMM. RULE: Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASS: Class A, B5, D2B (Aerosol, Flammable Aerosol, Toxic Materials)

CANADA INGREDIENT DISCLOSURE LIST: CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.

EUROPEAN COMMUNITY