

CLEAR CHOICE OUTDRIVE/OUTBOARD ANTI-FOULANT

This product appears in the following stock number(s):

2830C 2835C 2835U

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Tradename:** CLEAR CHOICE OUTDRIVE/OUTBOARD ANTI-FOULANT**General use:** An aerosol anti-foulant**Chemical family:** Aerosol Antifoulant.**MANUFACTURER**ITW Philadelphia Resins
130 Commerce Dr.
Montgomeryville, PA 18936**EMERGENCY INFORMATION****Emergency telephone number****(CHEMTREC): (800) 424-9300****Other Calls: (215) 855-8450****2. COMPOSITION/INFORMATION ON INGREDIENTS****HAZARDOUS CONSTITUENTS****Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
1-methoxy-2-propanol acetate	PGMEA	108656	1-10	n/e	n/e	100 ppm (AIHA-WEEL)
Dimethyl ether		115106	20-35	n/e	n/e	1000 ppm (AIHA-WEEL)
Xylene		1330207	1-10	100 ppm	100 ppm	100 ppm (Canada)
Tributyltinmethacrylate		2155706	10-25	2 mg/m3	2 mg/m3	n/e
Acetone		67641	1-10	500ppm	1000 ppm	750 ppm (Canada)
Methyl ethyl ketone	MEK	78933	10-25	200 ppm	200 ppm	200 ppm (Canada)
Naphtha		8030306	10-20	400 ppm	100ppm	100 ppm (NIOSH)

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance, form, odor: aerosol with solvent odor.

DANGER! Extremely Flammable. Eye, skin and respiratory irritant. May cause central nervous system effects.

Potential health effects

Primary routes of exposure: Skin contact Skin absorption Eye contact Inhalation Ingestion

Symptoms of acute overexposure:

Skin: May cause irritation (redness, rash, defatting) or corrosion to skin. May cause dermatitis.

Eyes: May cause immediate or delayed severe eye irritation (pain, redness, blurred vision). May injure eye tissue and cause permanent damage if not removed immediately.

Inhalation:

Respiratory tract irritant (increased breathing and/or heart rate, coughing, and other related signs of respiratory distress). Irritating to mucous membranes. Higher concentrations can cause dizziness, drowsiness, disorientation, anesthetic, nausea, headache and other central nervous system effects. In severe cases of overexposure may result in loss of consciousness and death.

Ingestion:

May cause irritation, nausea, diarrhea. May cause vomiting. Drawing of vomit into lungs can cause very dangerous pulmonary edema or chemical pneumonitis with gasping and bluish skin.

Effects of chronic overexposure:

Prolonged overexposure to solvent ingredients in this product may cause adverse effects to the liver, urinary tract and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ingestion of large quantities can cause convulsions and death.

Carcinogenicity -- OSHA regulated: No

ACGIH: No

National Toxicology Program: No

International Agency for Research on Cancer: No

Cancer-suspect constituent(s) : None

Medical conditions which may be aggravated by exposure:

Eye and skin disorders. Respiratory disorders (i.e. asthma). Preexisting liver or kidney disorders.

Other effects:

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

4. FIRST AID MEASURES**First aid for eyes:**

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

First aid for skin:

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and warm water. Consult a physician if irritation develops.

First aid for inhalation:

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention.

First aid for ingestion:

Do NOT induce vomiting. Contact a physician. If conscious, give water to drink. Do not give anything by mouth to an unconscious person. If vomiting occurs, keep patient's head below hips to prevent draining of vomitus into lung.

5. FIRE FIGHTING MEASURES**Extinguishing media:**

Water

Carbon dioxide

Dry chemical

Foam

Alcohol foam

Flash Point (°F): - 45**Method:****Explosive limits in air (percent) -- Lower:** 0.9 **Upper:** 10.0**Special firefighting procedures:**

Wear self-contained breathing apparatus and protective clothing. Use water spray to cool containers.

Unusual fire and explosion hazards:

Primarily those normally associated with aerosol containers. Handle as a flammable material.

Hazardous products of combustion:

Oxides of carbon, tin oxides and other unidentified organic products of combustion.

6. ACCIDENTAL RELEASE MEASURES**Spill control:**

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste).

Special procedures:

Use non-sparking tools. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

7. HANDLING AND STORAGE**Handling precautions:**

Contents under pressure. Do not puncture, incinerate or expose to temperatures greater than 120 degrees Fahrenheit. Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. Empty containers retain product residue and can be dangerous. Flammable liquid can release vapors that form flammable mixtures at temperatures at or above the flashpoint. Containers may explode and cause injury or death. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Avoid breathing vapors. Use with adequate ventilation

Storage:

Store in a cool, dry place. Keep away from heat and flame. Keep away from oxidizing material

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering controls****Ventilation :**

General mechanical should be sufficient for normal use in open areas. In confined areas, local exhaust may be necessary to keep vapor concentrations below the TLVs.

Other engineering controls :

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

Personal protective equipment**Eye and face protection:**

Safety glasses with side shields or goggles.

Skin protection:

Chemical-resistant gloves and other gear as required to prevent skin contact.

Respiratory protection:

No respiratory protection needed for normal use with good ventilation. If not, use NIOSH-approved organic vapor/acid gas respirator coupled with an N95 particulate filter (full facepiece recommended) if exposure limits are exceeded. For emergency or when exposure limits are significantly exceeded (i.e. 10x exposure limits) an air-supplying respirator may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	n/d	Boiling point (°F):	- 27
Melting point (°F):	n/d	Vapor density (air = 1):	>1
Vapor pressure (mmHg):	70 psia (Prop) at 0 °F	Evaporation rate (butyl acetate = 1):	>1
VOC (grams/liter):	641	Solubility in water:	Negligible
Percent volatile by volume:	> 50	pH (5% solution or slurry in water):	7
Percent solids by weight:	< 50		

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid :

Heat, sparks and open flames.

Incompatible materials:

Strong oxidizers, acids and bases. Amines, alkonolamines, aldehydes, ammonia, chlorinated compounds.

Hazardous products of decomposition:

Oxides of carbon, tin oxides and other unidentified organic combustion products.

Conditions under which hazardous polymerization may occur:

Heat, open flames and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): No data available.

No data available.

Acute dermal effects: LD50 (rabbit): No data available.

Tributyltin methacrylate: Skin irritation score = 5.5/8.0 (severe irritant).

Acute inhalation effects: LC50 (rat): No data available.

No data available.

Exposure: hours.

Eye irritation:

Tributyltin methacrylate: Eye irritation score = 16/110 (slightly irritating)

Subchronic effects:

No data.

Carcinogenicity, teratogenicity, and mutagenicity:

No data.

Other chronic effects:

Simultaneous over-exposure to MEK and n-hexane can potentiate the known irreversible neurotoxic effects of n-hexane.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
1-methoxy-2-propanol acetate	n/d	n/d	n/d
Dimethyl ether	n/d	n/d	308 g/m ³
Xylene	4300 mg/kg	>1700 mg/kg	5000 ppm
Tributyltinmethacrylate	160 mg/kg	n/d	n/d
Acetone	5800 mg/kg	20 mL/kg	70852 mg/m ³
Methyl ethyl ketone	2737 mg/kg	6480 mg/kg	33234 mg/m ³
Naphtha	>5 gm/kg	>3 gm/kg	n/d

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION**Ecotoxicity:**

Tributyltin methacrylate monomer is highly toxic to artemia salina larva with an LC50 value of 12.4 ug/L. Because of their toxicity to aquatic organisms, tributyltin compounds are used in marine anti-fouling paints. Tributyltin has been reported to bioaccumulate in marine fish and marine shellfish.

Mobility and persistence:

No data available

Environmental fate:

No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

14. TRANSPORT INFORMATION

Proper shipping name: Aerosols, flammable, n.o.s. *
Technical name : DIMETHYL ETHER AND ACETONE
Hazard class : 2.1
UN number: 1950
Packing group:
Emergency Response Guide no.: 126
IMDG page number: N/A
Other: Domestic US: Consumer Commodity, ORM-D

*Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

15. REGULATORY INFORMATION**U.S. Federal Regulations****TSCA**

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste:

D001

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
1-methoxy-2-propanol acetate	No	No	0.0	Not required
Dimethyl ether	No	No	0.0	Not required
Xylene	No	Yes	100.0	Not required
Tributyltinmethacrylate	No	Yes	0.0	Not required
Acetone	No	No	5000.0	Required
Methyl ethyl ketone	No	Yes	5000.0	Not required
Naphtha	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Fire hazard --

Sudden release of pressure hazard -

Canadian regulations

WHMIS hazard class(es) : B1; D2B; A

California regulations:

For purposes of the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop. 65), this product contains a chemical or chemicals known to the State of California to cause reproductive toxicity:

16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health 2*	Flammability 4	Reactivity 1
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