



SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

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Product: ESR SERIES PERFORMANCE PRE-CATALYZED TOPCOAT
Product Use: INDUSTRIAL HIGH PERFORMANCE PRE-CATALYZED TOPCOAT
FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:

Central nervous system, respiratory system, reproductive system, eyes, skin.

GHS Classification:

Flammable Liquids (Cat. 2)

Skin Irritation (Cat. 2)

Serious Eye Damage (Cat. 1)

Carcinogenicity (Cat. 2)

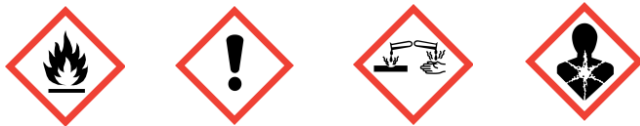
Reproductive Toxicity (Cat. 1B)

Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System, Respiratory Irritation

Specific Target Organ Toxicity- Single Exposure (Cat. 2) - Ingestion may damage optic nerve
Aspiration Hazard (Cat. 1)

GHS Label Elements, including precautionary statements:

Pictogram:



Signal Word:..... **Danger**

Hazard Statement(s):

- H225: Highly flammable liquid and vapour
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H351: Suspected of causing cancer
- H360: May damage fertility or the unborn child
- H336: May cause drowsiness or dizziness
- H335: May cause respiratory irritation
- H371: May cause damage to organs
- H304: May be fatal if swallowed and enters airways

Precautionary Statement(s):

- P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/lighting/equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P362+364: Take off contaminated clothing and wash it before reuse
- P264: Wash skin thoroughly after handling
- P260: Do not breathe dust/fume/gas/mist/vapours/spray
- P271: Use only in a well-ventilated area
- P202: Do not handle until all safety precautions have been read and understood
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P332+313: If skin irritation occurs: Get medical advice/attention
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P310: Immediately call a POISON CENTER or doctor/physician
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312: Call a POISON CENTER or doctor/physician if you feel unwell
- P308+311: IF exposed or concerned: Call a POISON CENTER/doctor
- P270: Do not eat, drink or smoke when using this product
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331: Do NOT induce vomiting
- P403+235: Store in a well ventilated place. Keep cool
- P405: Store locked up
- P370+378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide to extinguish
- P501: Dispose of contents/container to comply with local, provincial, state, and federal regulations

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%
Xylene	1330-20-7	10.00-30.00
Ethyl Benzene	100-41-4	1.00-5.00
Acetone	67-64-1	10.00-30.00
Methanol	67-56-1	1.00-5.00
Ethanol	64-17-5	5.00-10.00
Butanol	71-36-3	1.00-5.00
n-Butyl Acetate	123-86-4	10.00-30.00
2-methoxy-1-methylethyl Acetate	108-65-6	1.00-5.00
Nitrocellulose	9004-70-0	5.00-10.00
Isopropanol	67-63-0	1.00-5.00
Urea P/W Formaldehyde, isobutylated	68002-18-6	1.00-5.00
Isobutanol	78-83-1	1.00-5.00
Melamine P/W Formaldehyde, butylated	68002-25-5	1.00-5.00
Di(2-ethylhexyl)Phthalate	117-81-7	1.00-5.00

Refer to Section 8 for Occupational Exposure Guidelines.

SECTION 4 – FIRST-AID MEASURES

Inhalation:

This product is (extremely) flammable. Take proper precautions (e.g. remove any sources of ignition). If breathing is stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Quickly transport victim to an emergency care facility.

Ingestion:

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Have victim drink 60-240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim rinse mouth with water again. Obtain medical advice.

Eyes:

Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. Do not interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

Skin:

As quickly as possible, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for 15-20 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Note to Physician:

Treatment based on sound judgement of physician and individual reactions of patient.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media:

Foam, water fog, dry chemical, carbon dioxide.

Special Fire Fighting Procedures:

Use water spray to cool fire-exposed containers or structures.

Unusual Fire and Explosion Hazards:

Vapours and/or fumes from this product are heavier than air and may travel to a source of ignition and flash back causing explosion and fire. Never use welding or cutting torch on, or near drum (even empty) as product (even residue) can ignite explosively. All containers, including pails, drums, tank cars & trucks should be grounded and/or bonded when material is transferred. When using this product it is important that the gas at main leading to the premises must be shut off. All other ignition sources must be completely eliminated. In reference to the Ontario Fire Code Section 4.1.5.9(1), states that this product shall not be stored, handled or used in basements or pits.

Hazardous Combustion Products:

Carbon monoxide and/or carbon dioxide. Nitrogen oxide, ammonia, formaldehyde.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Dike and contain spills. Do not let product enter drains.

Methods and Materials for Containment and Clean Up:

Contain and/or dike spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

SECTION 7 – HANDLING AND STORAGE

Storage:

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage and evaporation.

Handling:

Use in a well ventilated area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof tools, equipment, and ventilation system. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge. Always ground and bond containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Threshold Limit Value: 5 mg/m³ ACGIH est. (Di(2-Ethylhexyl)Phthalate)

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Engineering Controls:

Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation.

Personal Protective Equipment:

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate, use an approved respirator for the concentration and type of hazardous materials in the workplace. Use respirators and components tested and approved under the appropriate government standards. Use respirators as backup to engineering controls if necessary.

Hand Protection:

Handle with gloves to minimize skin contact. Inspect gloves prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly.

Eye Protection:

Safety glasses and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

Protective Clothing:

Impervious clothing, flame retardant, antistatic protective clothing. The type of protective equipment should be selected according to the concentration and amount of hazardous materials at each specific workplace.

Additional Measures:

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Physical State: Liquid
Appearance/Odour: Clear to hazy with solvent odour
Odour Threshold: Not available
Viscosity: 19-21 seconds @ 25°C Ford #4
Vapour Density (AIR=1): Heavier than air
Boiling Point: 56°C est. (Acetone)
Melting/Freezing Point: Not available
Vapour Pressure: Not available
Evaporation Rate: Not available
Specific Gravity: 0.9292 +/- 0.01 gms/cc @ 25°C
Solubility in Water: Not soluble
% Non-Volatile: 25% +/- 2 w/w
Coeff. Water/Oil Dist.: Not available

Flashpoint: -16.99°C C.C. est. (Acetone)
Autoignition Temp: >343-365°C est.
Upper Flammable Limit: 19-36% est.
Lower Flammable Limit: 0.28% est. (Di(2-Ethylhexyl)Phthalate)

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable.

Hazardous Decomposition Products:

Carbon monoxide and/or carbon dioxide. Acetic acid, butanol, nitrogen oxide, ammonia, formaldehyde, aldehydes, hydrocarbons.

Materials to Avoid:

Strong oxidizing agents, acids, bases and reducing agents. Halogens and halogenated compounds, metal salts, ammonia, potassium tert-butoxide, phosphorous oxychloride, alkalis, amines.

Hazardous Reactions:

No data.

Conditions to Avoid:

Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
Xylene	3523 mg/kg	6350 ppm	4
Ethyl Benzene	3500 mg/kg	4000 ppm	4
Acetone	5800 mg/kg	30000 ppm	4
Methanol	5628 mg/kg	64000 ppm	4
Ethanol	7060 mg/kg	31623 ppm	4
Butanol	790 mg/kg	8000 ppm	4
n-Butyl Acetate	10760 mg/kg	160-2000 ppm	4
2-methoxy-1-methylethyl Acetate	8532 mg/kg	not available	-
Nitrocellulose	>5000 mg/kg	not available	-
Isopropanol	>5840 mg/kg	30 mg/L	4
Urea P/W Formaldehyde, isobutylated	>2000 mg/kg	5 mg/L	4
Isobutanol	2460 mg/kg	>8000 ppm	4
Melamine P/W Formaldehyde, butylated	>5000 mg/kg	not available	-
Di(2-ethylhexyl)Phthalate	30000 mg/kg	>10.62 mg/L	4
.	.	14% of total product has unknown toxicity	.

Skin corrosion/irritation:

Rabbit - skin irritation - 24 hour

Serious eye damage/irritation:

A component of this product tested: Rabbit - blindness - OECD test guideline 405

Respiratory or skin sensitization:

Not classified as a sensitization hazard.

Germ cell mutagenicity:

Not expected to be mutagenic in humans.

Carcinogenicity:

IARC has classified Di(2-ethylhexyl)Phthalate as a possible human carcinogen, Group 2B. The data available from epidemiological studies is inadequate to evaluate the relationship between human cancer and exposure specifically to DEHP (IARC 1982).

IARC has classified Ethyl Benzene as a possible human carcinogen, Group 2B.

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Reproductive toxicity:

Excessive exposure during pregnancy may be hazardous to the developing fetus. May cause fetotoxic effects both in the presence and absence of maternal toxicity, based on animal studies.

Teratogenicity:

May cause teratogenic/embryotoxic effects at levels which are not maternally toxic.

Specific target organ toxicity (single exposure):

May cause central nervous system depression. May cause respiratory system irritation. Ingestion may cause damage to the optic nerve.

Specific target organ toxicity (repeated exposure):

Not classified as a repeat exposure hazard.

Aspiration hazard:

Classified as an aspiration hazard.

Potential Health Effects:

Inhalation:

Excessive inhalation of vapours can cause nasal and respiratory irritation and central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, blurred vision and possible unconsciousness.

Ingestion:

May cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache, dizziness, fatigue, and central nervous system depression. Contains Methanol. Cannot be made non-poisonous. Swallowing even small amounts of Methanol can cause blindness.

Skin:

Prolonged or repeated contact may dry the skin and cause defatting and dermatitis. Symptoms may include redness, burning sensation, drying and cracking of skin.

Eyes:

May cause severe irritation, redness, tearing, blurred vision. Can cause corneal injury.

Signs and Symptoms of Exposure:

Can cause central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, blurred vision and possible unconsciousness.

Synergistic effects:

Not available.

Additional information:

May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, nausea, vomiting and incoordination. Contains Methanol. Cannot be made non-poisonous. Swallowing even small amounts of Methanol can cause blindness.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate and Distribution:

Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

Aquatic toxicity:

LC50 (Pimephales Promelas) >0.67 mg/L 96H est. (Di(2-Ethylhexyl)Phthalate)

LC50 (Pimephales Promelas) 18 mg/L 96H est. (n-Butyl Acetate) OECD Test Guideline 203

Persistence and degradability:

No data.

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Bioaccumulative potential:

No data.

Mobility in soil:

No data.

Other adverse effects:

May be toxic to aquatic life with potentially long lasting effects.

SECTION 13 –DISPOSAL CONSIDERATIONS

Waste disposal:

Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable regulations.

Contaminated Packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow any label warnings even after container is emptied.

SECTION 14 – TRANSPORTATION INFORMATION

TDG Classification (Ground Only):CLASS 3 UN1263 II

Proper Shipping Name (Ground Only):PAINT

A scientific determination was concluded based on formulation ingredients on December 18, 2023 to define the Transportation of Dangerous Goods Classifications.

SECTION 15 - REGULATIONS

This material is included on the DLS (Canadian Domestic Substance List) under the CEPA (Canadian Environmental Protection Act).

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

This material meets TSCA (Toxic Substances Control Act) inventory requirements.

Contents of this SDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

SECTION 16 – OTHER INFORMATION

LEGEND TO ABBREVIATIONS:

CAS: CHEMICAL ABSTRACT SERVICES

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

LC: LETHAL CONCENTRATION

LD: LETHAL DOSE

TDG: TRANSPORTATION OF DANGEROUS GOODS

TLV: THRESHOLD LIMIT VALUE

VOC: VOLATILE ORGANIC COMPOUND

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