



# The X-1R Corporation

## Safety Data Sheet

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### Section 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** X-1R Engine Flush

**MANUFACTURER:** The X-1R Corporation  
**ADDRESS:** 375 Fentress Blvd. Daytona Beach, FL 32114

**PRODUCT INFORMATION:** 1-386-271-7000  
**EMERGENCY PHONE:** 1-800-424-9300 (Inside U.S.)  
1-703-527-3887 (Outside U.S.)  
**FAX:** 1-386-271-7001

**CHEMICAL NAME:** Not Applicable  
**CHEMICAL FAMILY:** Synthetic Hydrocarbon  
**CHEMICAL FORMULA:** Proprietary

**PRODUCT USE:** Used for the removal of sludge, varnish, carbon and other  
**APPROVED BY:** J. A. Ketchledge

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### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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<b><u>INGREDIENT</u></b>	<b><u>CAS NO</u></b>	<b><u>EXPOSURE LIMITS</u></b>
Petroleum Oils	Proprietary	Not Established
Additives	Proprietary	Not Established

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This Product is Non-Hazardous. This product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Brown cloudy liquid, with slight odor. (See Section 9). Avoid contact with eyes and excessive contact with skin (See Section 3 below). Avoid contact with strong oxidizers. Protect against decomposition products of oxides of carbon.

**HMIS RATING:**    **HEALTH:** 0    **FLAMMABILITY:** 1    **REACTIVITY:** 0    **PPE:** B

**ROUTES:** Skin contact.

**POTENTIAL HEALTH EFFECTS:**

**EYES:** May cause mild eye irritation

**SKIN:** May cause mild skin irritation.

**INGESTION:** No hazard in normal industrial use.

**INHALATION:** No hazard in normal industrial use.

**ACUTE HEALTH HAZARDS:** None Known.

**CHRONIC HEALTH HAZARDS:** It contains no known carcinogens or mutagens as defined by OSHA or IARC.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSE:** None Known.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Flush with clean, lukewarm water (low pressure) occasionally lifting eyelids. Physician assessment if eyes are inflamed.

**SKIN:** Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse.

**INGESTION:** Do not induce vomiting. Drink water as a precaution. Consult a physician if necessary.

**INHALATION:** Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Qualified personnel may give oxygen if breathing is difficult. Get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Treat as any exposure to any oil based material (See Section 3 for observable signs/symptoms).

## SECTION 5: FIRE FIGHTING MEASURES

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**FLAMMABLE PROPERTIES:**      **Flash Point:** 410 °F (Method: C.O.C.)  
**Burn Rate:** Unknown

**FLAMMABLE LIMITS:**              Lower Flammable Limit: Not Established.  
Upper Flammable Limit: Not Established.

**FLAMMABLE CLASSIFICATION:** Not Established.

**AUTOIGNITION TEMPERATURE:** Not Established.

**HAZARDOUS COMBUSTION PRODUCTS:** Low Fire Hazard. Do not cut, drill, or weld empty containers.

**EXTINGUISHING MEDIA:** Dry chemical foam, water spray, and carbon dioxide for small fires.

**ADDITIONAL MEDIA:** None.

**FIRE FIGHTING INSTRUCTIONS:** Cover with extinguishing agent, use water spray to cool fire exposed containers & as a protective screen. Do not point water stream directly into burning fluid to avoid spreading.

**NFPA RATING:**      **HEALTH:** 0    **FLAMMABILITY:** 1    **REACTIVITY:** 0      **PPE:** B

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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Contain spill, absorb with inert absorbents such as dry clay, sand, or diatomaceous earth, commercial absorbents, or recover using pumps. Scoop up used absorbents into appropriate receptacles.

Dispose in approved, secure landfill site or through a licensed waste declaimer.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING:** Wash thoroughly after handling. Do not get in eyes or on clothing.

**STORAGE:** Keep container closed. Keep away from sparks and open flame.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

**VENTILATION:** Use with adequate ventilation. Use good engineering practices to establish ventilation.

**SPECIAL PACKAGING MATERIALS:** Not applicable

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Use with adequate ventilation

**EYE / FACE PROTECTION:** None normally required, Chemical goggles if splashing is likely or high-pressure systems are used.

**SKIN PROTECTION:** For direct contact for more than 2 hours, Viton or Nitrile is recommended, otherwise pick may be worn.

**RESPIRATORY PROTECTION:** None normally required. If mist is generated, wear approved organic vapor respirator suitable for oil mist areas with sufficient oxygen.

**EXPOSURE GUIDELINES:** (See Section 2).

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Liquid brown-cloudy
<b>ODOR:</b>	Slight odor
<b>PHYSICAL STATE:</b>	Liquid
<b>pH:</b>	Not Applicable
<b>BOILING POINT:</b>	> 325 °F
<b>MELTING POINT:</b>	Not Applicable
<b>FREEZING POINT:</b>	Not Available
<b>MOLECULAR WEIGHT:</b>	Not Available
<b>VAPOR PRESSURE:</b>	< 0.001kpa @ 25 °C
<b>VAPOR DENSITY (AIR = 1):</b>	Not Available
<b>% VOLATILES BY VOLUME:</b>	0%
<b>EVAPORATION RATE:</b>	Not Available
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	0.81 – 0.85
<b>SOLUBILITY IN WATER:</b>	Negligible

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## SECTION 10: STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Product is stable

**CONDITIONS TO AVOID:** Open flames.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Analogous compounds evolve, carbon oxides, and other undefined fragments when burned.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**EYE EFFECTS:** Mild (transient) eye irritation

**SKIN EFFECTS:** Mild (transient) skin irritation

**INGESTION EFFECTS:** No data

**INHALATION EFFECTS:** No data

**SUBCHRONIC EFFECTS:** No data

**CHRONIC EFFECTS/CARCINOGENICITY:** It contains no known carcinogens or mutagens as defined by OSHA or IARC.

**EPIDEMIOLOGY:** No data

**TERATOLOGY:** No data

**REPRODUCTIVE EFFECTS:** No data

**NEUROTOXICITY:** No data

**MUTAGENICITY:** No data

**SYNERGISTIC PRODUCTS:** No data

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOTOXICITY:** No data **ENVIRONMENTAL**

**FATE:** No data **PHYSICAL/CHEMICAL:** (See

Sections 9 and 10)

## SECTION 13: DISPOSAL CONSIDERATIONS

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Used product must be disposed of in accordance with federal, state, & local environmental control regulations. Incineration is preferred.

Do not heat or cut empty containers with electric or gas torch.

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## SECTION 14: TRANSPORT INFORMATION

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<b>DOT SHIPPING NAME:</b>	Not Regulated
<b>DOT HAZAED CLASS/DESCRIPTION:</b>	Not Regulated
<b>DOT LABEL:</b>	Not applicable
<b>DOT PLACARD:</b>	Not applicable
<b>DOT UN/NA NUMBER:</b>	Not Regulated
<b>DOT PACKING GROUP:</b>	Not applicable
<b>DOT PRODUCT RQ:</b>	Not applicable
<b>IMO CLASSIFICATION:</b>	Not applicable
<b>EEC CLASSIFICATION:</b>	Not applicable
<b>EEC LABEL:</b>	Not applicable
<b>EEC R:</b>	Not applicable
<b>EEC S:</b>	Not applicable
<b>TRANSPORT CANADA PIN:</b>	Not applicable

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS:

**TSCA:** All components appears in TSCA Inventory

**OSHA:** None

### CERCLA SARA HAZARD CATEGORY:

**SECTION 311 AND 312:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None

**SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: barium compound 3%.

### INTERNATIONAL REGULATIONS:

**CANADIAN WHMIS:** None

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):** Additional information available upon request.

**EINECS:** Additional information available upon request.

**STATE REGULATIONS:** No specific listing in California or New Jersey. Additional information available upon request.

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## SECTION 16: OTHER INFORMATION

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The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The X-1R Corporation. The Data on this sheet related only to the specific material designed herein. The X-1R Corporation assumes no legal responsibility for the use or reliance on this data.

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