

Product Name: Iris® Cleaning Fluid

1. Product Name and Company Identification

Product Name: Iris® Cleaning Fluid
Chemical Name/Class: Water-Based Cleaning Fluid
Synonyms: Creo part number P/N 405-00018A; 480I01244; 02999-001; 480D0529; 06427-001; 480I01005; 05349-001; 05349-002; 07868-001
Product Use: Printing Applications
UN Number: None Allocated
UN Dangerous Goods Class/Subsidiary Risk: None Allocated
Hazchem Code (Australia): None Allocated
Poisons Schedule Number (Australia): None Allocated
Supplier: Creo Inc.

Emergency Telephone Number: Infotrac®
North America: 1-800-535-5053
International: +1-352-323-3500

Supplier Address: Creo Inc.
3700 Gilmore Way
Burnaby, BC
Canada V5G 4M1
24-Hour Telephone For Information: Creo Response Center
North America: 1-800-472-2727
International: +1-604-451-2727
Fax Number: +1-604-437-9891

European Distributor Address: Creo EMEA S.A.
Waterloo Office Park
Drève Richelle 161
Building E-F
B-1410 Waterloo, Belgium
Business Telephone: + 32-2-352-2511
Fax Number: + 32-2-351-0915

Australian Distributor Address: Creo Asia Pacific Limited
3/F King's Road
North Point
Hong Kong
Business Telephone: + 852-2882 1011
Fax Number: + 852-2882 8897

Material Safety Data Sheet: Iris® Cleaning Fluid

2. Composition/Information on Ingredients

Hazardous Ingredients	WT %	CAS #	EINECS #	ENCS #	ECL #
Water and other constituents.	Balance	7732-18-5	231-791-2	*NE	*NE

*NE = Not Established.

3. Hazards Identification

Emergency Overview

Appearance:	Clear, colorless, slippery liquid with a mild odor.
Health Hazards:	Mildly irritates contaminated tissues.
Flammability Hazards:	Not flammable.
Reactivity Hazards:	Not reactive.
Environmental Hazards:	Adverse effects can result if released.
Emergency Recommendations:	Responders must wear suitable personal protective equipment.

Potential Health Effects

Route of Entry:	Inhalation: Yes
	Skin: Yes
	Ingestion: Yes
Inhalation:	Acute: Inhaling vapors, mists or sprays may mildly irritate respiratory system. Severe overexposure may include coughing and sneezing. Chronic: No symptoms known.
Eye Contact:	Mildly irritating to eyes, causing pain, tearing, and redness.
Skin Contact:	Acute: Skin contact may cause redness, pain, or itching in sensitive individuals. Chronic: Repeated skin exposure may cause dermatitis (dry, red skin), flaking, or softening of skin. Allergic skin reactions may occur in sensitive individuals. Absorption of product components through intact skin is unknown.
Skin Absorption:	Absorption of product components through intact skin is unknown.
Sensitization Potential:	Trace components of this product are suspect skin sensitizers; subsequent exposure to very small amounts may cause allergic reaction.
Ingestion:	If swallowed symptoms may include nausea, vomiting, diarrhea, and discoloration of the mouth, teeth, and tissues of the throat
Injection:	Not expected to occur under normal use.
Target Organs:	Acute: Skin, eyes, respiratory system. Chronic: Skin.
Carcinogenicity:	NTP: Not listed IARC: Not listed OSHA: Not listed

Material Safety Data Sheet: Iris® Cleaning Fluid

4. First Aid Measures

If adverse effect occurs after decontamination, victims must receive medical attention. Rescuers should receive medical attention if necessary. Take a copy of the product label and MSDS to the physician or health professional with the contaminated individual.

Inhalation:	Remove to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if adverse effects continue.
Eye Contact:	Remove contact lenses at once. Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. Have victim "roll" eyes. Seek medical attention if adverse effects continue after rinsing eyes.
Skin Contact:	Remove contaminated clothes and shoes. Rinse skin with plenty of water or shower for at least 15 minutes. Take care not to contaminate eyes. Seek medical attention if adverse effects continue after rinsing.
Ingestion:	If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING unless directed by medical personnel. Have victim rinse mouth with water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow . If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. If contaminated individual is convulsing, maintain an open airway and obtain immediate medical attention.
Medical Conditions Aggravated by Exposure:	Prolonged exposure can aggravate skin disorders.
Recommendations to Physicians:	Treat symptoms and eliminate overexposure.

5. Fire Fighting Measures

Flash Point:	Not flammable.
Flammable (Explosive) Limits:	Not applicable.
Extinguishing Media:	Water fog, carbon dioxide, or dry chemical.
Fire & Explosion Hazards:	If involved in fire, can decompose and produce irritating vapors and toxic gases (for example, hydrogen chloride, carbon oxides and nitrogen oxides).
Special Fire Fighting Instructions:	Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Use water spray to cool fire-exposed containers. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.
NFPA Rating:	Health (blue): 2 Flammability (red): 0 Instability (yellow): 0

Material Safety Data Sheet: Iris® Cleaning Fluid

6. Accidental Release Measures

Spill and Leak Response:	For incidental spills (for example, less than 1 liter of liquid from a bottle), wear rubber gloves, splash goggles, and appropriate body protection. Trained personnel following pre-planned procedures should handle larger releases (for example, 10 L of liquid leaking from a crate of several containers). For larger spills, clear the area and protect individuals. Minimum personal protective equipment required for larger spills is rubber gloves, rubber boots, face shield, and Tyvek suit. If oxygen level is below 19.5% or unknown, Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hardhat, and Self-Contained Breathing Apparatus are required. Absorb spilled liquid with suitable materials. Decontaminate area thoroughly.
Waste Disposal Method:	Place all spill residue in an appropriate container and seal. Dispose of according to applicable Federal, State, provincial and local regulations or procedures (see <i>Section 13, Disposal Considerations</i>).

7. Handling and Storage

Work and Hygiene Practices:	Wash hands thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while handling. Avoid breathing vapors, mists, or sprays. Use in a well-ventilated area. Remove contaminated clothing immediately. All work practices should minimize product release. Work areas should have eyewash stations and safety showers.
Storage and Handling Practices:	Train all employees how to handle this product safely. Keep container tightly closed when not in use. Store containers in a cool, dry location between 5-40°C (41-74°F), away from direct sunlight and sources of intense heat or cold. Store material in secondary containers or in a diked area as appropriate. Store containers away from incompatible chemicals (see <i>Section 10, Stability and Reactivity</i>). Inspect all incoming containers for proper labeling and damage before storing. Handle empty containers with care because they can contain residual liquid or vapors.
Protective Practices During Maintenance of Contaminated Equipment:	Follow practices indicated in <i>Section 6, Accidental Release Measures</i> . Disconnect all electrical cords during decontamination to avoid electrocution. Collect all rinsates and dispose of according to applicable Federal, State, provincial and local regulations or procedures.

8. Exposure Controls and Personal Protection

Engineering Controls:	Use with adequate ventilation to ensure exposures are below limits in <i>Exposure Guidelines</i> below. If necessary, vent material to outside, taking appropriate precautions to prevent environmental contamination. Ensure eyewash/safety shower stations are available near work areas.
Ventilation:	Local exhaust: Preferable Mechanical: Adequate

Material Safety Data Sheet: Iris® Cleaning Fluid

Personal Protection: **Eyes:** Wear splash goggles or safety glasses if exposure to vapors or sprays of liquid can occur. Refer to relevant regional standards for personal protective equipment.
Skin: Wear butyl rubber gloves. Check gloves for leaks. Use body protection appropriate for task (for example, rubber apron when cleaning equipment, Tyvek suit and rubber boots during non-incident spill response). Use foot protection if injury hazard exists due to falling, rolling, sharp, or electrical objects. Refer to relevant regional standards for personal protective equipment.
Respiratory System: Use only authorized and properly maintained equipment. Refer to relevant regional standards for personal protective equipment. Oxygen levels below 19.5% are considered Immediately Dangerous to Life or Health. In such conditions, using a full-facepiece pressure/demand Self Contained Breathing Apparatus, or a full facepiece supplied air respirator with auxiliary self-contained air supply, is required.

Exposure Guidelines: None established.

9. Physical and Chemical Properties

Appearance and Odor: Clear, colorless, slippery liquid with mild odor.
Physical State: Liquid
Freezing Point: ~ 0°C (~ 32°F)
Boiling Point: ~ 100°C (~ 212°F)
Specific Gravity: ~ 1.00
Odour Threshold: N/E
Vapour Density: > 1
Vapor Pressure: N/E
Evaporation Rate: N/E
pH: 6-7
Solubility in Water: Soluble
Coefficient of water/oil distribution: N/E

10. Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: Extremely high temperatures, incompatible chemicals.
Incompatibility (Materials to Avoid): Strong oxidizers, strong bases, and water reactive materials.
Hazardous Decomposition Products: If exposed to extremely high temperatures, this product can decompose to generate hydrogen chloride, carbon oxides and nitrogen oxides.
Hazardous Polymerization: Will not occur

Material Safety Data Sheet: Iris® Cleaning Fluid

11. Toxicology Information

Except for water, the components of this product are in less than 1% composition and so no toxicity data are presented in the MSDS.

RTECS number:	Not Applicable
Acute toxicity Data:	Not Applicable
Irritation Data:	Not Applicable
Mutation Data:	Not Applicable
Reproductive Effects Data:	Not Applicable
Carcinogenicity Data:	The components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and therefore are neither considered to be nor suspected to be cancer causing agents by these agencies.
Biological Exposure Indices:	Currently, there are no Biological Exposure Indices (BEIs) are established for components of this product.

12. Ecological Information

Environmental Stability:	Relatively stable under ambient environmental conditions. Limited information is available on the environmental fate and effects of releasing this material into the environment
Effect of Material on Plants or Animals:	Harmful or fatal to contaminated plant and animal life, especially if released in large quantities.
Effect of Material on Aquatic Life:	Harmful or fatal to contaminated aquatic plant and animal life, especially if released in large quantities.
Degradability:	No data available. This product is expected to degrade over time in atmospheric, aquatic and terrestrial environments.
Log Octanol/Water Partition Coefficient:	No data available for product.

13. Disposal Considerations

Preparing Wastes For Disposal:	Waste disposal must be in accordance with appropriate Federal, State, provincial and local regulations or procedures. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
EWC Code:	Not Applicable
U.S. EPA Waste Number:	Not Applicable

Material Safety Data Sheet: Iris® Cleaning Fluid

14. Transport Information

	U.S. DOT	Canadian TC	IATA	IMDG	Australia Road/Rail*	UN ADR/RID
Goods Class:	Not Hazardous	Not Dangerous Goods				

* Australian Federal Office of Road Safety Code For The Transportation of Dangerous Goods by Road or Rail

15. Regulatory Information

United States

Product components are not subject to the reporting requirements of:

SARA 302 (40 CFR 355, Appendix A): Sections 302 of Title III of the Superfund Amendments and Reauthorization Act.

EPA - CERCLA/Superfund, 40CFR 302.4: Sections 304 of Title III of the Superfund Amendments and Reauthorization Act.

SARA Title III, 313 Chemicals: Sections 313 of Title III of the Superfund Amendments and Reauthorization Act.

EPA TSCA Inventory: Product components are listed on the TSCA Inventory.

California Proposition 65: Product components are not on the State of California Proposition 65 lists of chemicals known to cause cancer, birth defects, or other reproductive harm.

Canada

DSL/NDSL Inventory: Product components are listed on the Canadian DSL or NDSL inventory.

WHMIS Classification: D2B (Poisonous and infectious material-Contains a sensitizer)

CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Australia

Inventory of Chemical Substances (AICS): Components are listed or are excepted from listing.

List of Designated Substances: Not applicable.

Standard for the Uniform Scheduling of Drugs and Poisons: Not applicable.

Europe

EINECS/ELINCS Inventory: Product components are listed on the European EINECS/ELINCS inventory or are excepted from listing.

EINECS Number: None given.

EU Classification and Labeling: This product meets the criteria of Irritant [Xi], according to current European Community Guidelines.

Japan

ENCS Numbers: None given

Poisonous and Deleterious Substances Control Law: No product component is specified as a Poisonous Substance.

Material Safety Data Sheet: Iris® Cleaning Fluid

Korea

ECL Numbers: None given

Harmonized Labeling, Risk Phrases, and Safety Phrases

Region:	Europe	Australia	Korea	Japan
Guideline/Regulation:	2001/59/EC	NOHSC: 10005 (1994)		
Symbol:				

Classification:	Irritant [Xi].		
Risk Phrases:	R 43	May cause sensitization by skin contact.	
Safety Phrases:	S 2	Keep out of reach of children.	
	S 24	Avoid contact with skin.	
	S 28	After contact with skin, wash immediately with plenty of soap and water.	

16. Other Information

HMIS RATING: Health Hazard: 2 Flammability Hazard: 0 Physical Hazard: 0

MSDS Creation Date: 2004/04/04

Last Revision:

This MSDS has been prepared in accordance with the criteria set out in U.S. Federal OSHA Hazard Communication Standard 29 CFR 1910.1200, Canadian Controlled Products Regulations (CPR), European Community Directives, and the Japanese Industrial Standard JIS Z 7250:2000. The product described in this MSDS should not be used for purposes other than those described in Section 1. As the specific conditions of use of the product described in this MSDS are outside of our control, you are solely responsible for ensuring that you comply with the requirements of all relevant legislation.

The information contained in this MSDS is based on the present state of knowledge and current legislation. Its sole purpose is to provide guidance on health, safety and environmental aspects of the product described in this MSDS and should not be construed as any guarantee of technical performance or suitability for particular applications.

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