Safety Data Sheet

Inland Ink Remover

Section 1 – Product and Company Information

Manufacturer Inland Diamond Products Company - 32051 Howard Street Madison Heights, MI 48071 USA
www.inlanddiamond.com
USA Toll Free: 1-800-347-2020 USA 248-585 2330 Canada 800 231 6903

Trade Name Inland Ink Remover
Chemical Family: Cleaners
Product ID 18205
Recommended Uses Remove all manufacturers ink markings

Emergency Phone Number:
CHEMTREC 1-800-424-9300 or
1-703-527-3887

Section 2 – Hazard Identification

GHS Classification and Hazard Statements in Accordance with 29 CFR 1910 (OSHA HCS)

Physical Hazard: Flammable Liquid – Category 1 - Extremely flammable liquid and vapor.

Health Hazard: Aspiration Hazard – Category 1 - May be fatal if swallowed and enter airways.
Carcinogenicity – Category 2 – Suspected of causing cancer.
Specific Target Organ Toxicity (Single Exposure) – Category 3 - May cause drowsiness or dizziness
Specific Target Organ Toxicity (Repeated Exposure) – Category 2 - May cause damage to organs (CNS, Pancreas)
Skin Irritation – Category 2 - Causes skin irritation
Eye Irritation – Category 2B - Causes eye irritation

Environmental Hazard: Chronic Aquatic Toxicity – Category 2 - Toxic to aquatic life with long lasting effects

GHS Label elements and precautionary statements

Pictogram Flame –Health Hazard – Exclamation Mark - Environment

Signal word: **DANGER**

Prevention

Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear eye and face protection. Avoid breathing dust/gas/fume/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wash hands or other contact areas thoroughly after handling. Wear protective clothing.

Response

In case of fire: Use dry chemical, foam or water fog to extinguish. Do not use direct water stream.

If swallowed: Immediately get medical attention. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

If on skin: Wash with plenty of water. See First Aid on this label for specific treatment. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

Collect spillage

Storage: Store in a well-ventilated place. Keep cool. Store locked up. Store in a well-ventilated place.

Disposal: Dispose of container or contents in accordance with all regulations.

Environmental Hazards: Chronic Aquatic Toxicity – Category 2 - Toxic to aquatic life with long lasting effects

Hazards not otherwise classified or not covered by GHS

HMIS Rating: Health hazard: 2 Chronic Health Hazard: * Flammability: 3 Physical Hazard 0
NFPA Rating: Health hazard: 2 Fire Hazard: 3 Reactivity Hazard: 1 Health hazard: 2

Section 3 – Composition/Information on Ingredients

Component	**CAS Number**	**Percentage** (vol.)
Ethanol	64-17-5	85 – 90%
Methanol	108-10-1	1 – 5%
Dimethyl ketone	67-64-1	1 – 7%

Section 4 – First Aid Measures

Description of First Aid Measures;
In Case of Skin Contact: First aid not normally required. Remove contaminated clothing. Wash area of contact with soap and water. Wash clothing before reuse. Get medical attention if irritation occurs and persists.
In Case of Eye Contact: Remove contact lenses. Flush with water until all traces of material are gone. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
If Inhaled: Remove affected person from source of exposure. Get medical attention if breathing difficulty or discomfort persists.
If Swallowed: Do not induce vomiting because of danger of aspiration into lungs. If conscious, give a glass of water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, monitor for breathing difficulty. Get medical attention.
Most Important Symptoms and Effects – Immediate and Delayed: None known for this product.
Indication of Any Immediate Medical Attention and Special Treatment Needed: None known for this product.

Section 5 – Firefighting Measures

Extinguishing media
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture: Carbon oxides
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
Further information: Use water spray to cool unopened containers. If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas. Reclaim and recycle is preferred.
Environmental Precautions: No special environmental precautions required. Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.
Methods and materials for containment and cleaning up: Floor and surfaces may be slippery.
For large spills, isolate the release area and keep unnecessary people away. Exercise caution regarding personnel safety and exposure. Dike with sand or other material.
For Small Spills: Sweep up and shovel solids. Use absorbents to collect liquids. Keep in suitable, closed containers for disposal. Flush area with water provided runoff does not enter drain or sewer; use absorbent material and dispose of properly.
Reference to other sections: For personal protection see section 8. For disposal see section 13.

Section 7 – Handling and Storage

Precautions for safe handling: Wear proper protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not ingest. For intended use only. Use good hygiene practices when handling product, including changing and laundering work clothes after use. Get medical attention if you are exposed and feel unwell. The shipping and storage container is not designed to be pressurized. Do not use pressure to empty the container as it may rupture. Containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. Empty containers may contain residue or vapors. Do not cut, grind, drill, weld or reuse containers.
Conditions for safe storage, including any incompatibilities: Do not store near incompatible chemicals. When possible, store in a dry place at moderate temperatures (above freezing) away from heat and flames. This material is to be handled and applied according to label directions. Keep this product and all chemicals away from children and pets. Keep containers closed when not in use. Keep from freezing. Do not eat, drink, or smoke while using this product.

Section 8 – Exposure Control and Personal Protection

Exposure Guidelines

Components: Ethanol: PEL 1000 ppm – 1900 mg/m3 ACIGH TWA 1000 ppm Dimethyl ketone: ACGIH TLV (United States, 3/2012). STEL: 1782 mg/m³ 15 minutes. STEL: 750 ppm 15 minutes. N TWA: 1188 mg/m³ 8 hours. TWA: 500 ppm 8 hours. NIOSH REL (United States, 1/2013). TWA: 590 mg/m³ 10 hours. TWA: 250 ppm 10 hours. OSHA PEL (United States, 6/2010). TWA: 2400 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 2400 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1800 mg/m³ 8 hours. TWA: 750 ppm 8 hours.

Engineering Controls

Ventilation Protection: Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache nausea, or eye-watering – Stop – ventilation is inadequate. Leave area immediately.

Respiratory Protection: For OSHA controlled work place and other regular users – use only with adequate ventilation under engineered air-control systems designed to prevent exceeding appropriate TLV. For occasional use where engineered air control is not feasible, use properly maintained and properly fitted respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

Skin Protection: Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

Eye Protection: Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

Other Protection: Various application methods can dictate use of additional protective safety equipment; such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink or smoke in the work areas. Wash hands thoroughly contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Form: Liquid
Color: Straw
Odor: Characteristic.
Odor threshold: N/A

Health, Safety and Environment Info

Boiling Point/Range: 47°F (63.88°C) / 241°F (116.11°C)
Flash Point (SETA): 45°F / 7.22°C
Auto Ignition Temp: 480°F (250°C)
Lower Flammability-Explosion Limit: N/A
Upper Flammability-Explosion Limit: N/A
Vapor Pressure: 65 - 75 psig @ 70°F est.
Vapor Density (Air= 1) : >1
Solubility (Water): Miscible.
Specific Gravity (H_2O=1): 0.95
Evaporation Rate: (Butyl Acetate= 1) 2 – 7 as log Pow
Viscosity (SSU@ 100°F): N/A.
pH: N/A

Other Information:

Flammability Class: Flammable IB estimated
Heat of Combustion: 25.53 kJ/g estimated
Heat of Combustion (NFPA 30B) 25.53 kJ/g estimated
Percent Volatile: 46.5 % estimated
Specific Gravity: 0.955 estimated
VOC (Weight %): 100
Bulk Density: 6.61 lbs. /gal at 75°C

Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product

Section 10 – Stability and Reactivity

Reactivity: Does not react under normal conditions of use. Vapor may form explosive mixture with air.
Chemical Stability: Stable under normal conditions of use.
Stability/Incompatibility: Incompatible with strong oxidizing agents.
Conditions to Avoid: Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge (see Section 7). Hazardous decomposition products Ignition and burning can release carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).
Decomposition: Decomposition may produce carbon monoxide and carbon dioxide.

Section 11 – Toxicological Information

Component Toxicity:
Ethanol**;** Ethyl alcohol 64-17-5 Acute oral toxicity: LD50 rat Dose: 6,200 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 19,999 mg/kg Acute inhalation toxicity: LC50 rat Dose: 8,001 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Prolonged skin contact may cause skin irritation and/or dermatitis. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation Mild eye irritation.
Methanol: Acute toxicity LD50 Oral - Rat - 2,080 mg/kg LC50 Inhalation - Rat - 4 h - 8.2 - 16.4 mg/m3 LD50 Dermal - Rabbit - > 16,000 mg/kg No data available Skin corrosion/irritation Skin – Rabbit Result: Mild skin irritation - 24 h Serious eye damage/eye irritation Eyes – Rabbit Result: Moderate eye irritation - 24 h
Dimethyl ketone: Acute EC50 20.565 mg/l Marine water Algae - Ulva pertusa 96 hours Acute LC50 6000000 µg/l Fresh water Crustaceans - Gammarus pulex 48 hours Acute LC50 10000 µg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 100 mg/l Fresh water Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) 96 hours Chronic NOEC 4.95 mg/l Marine water Algae - Ulva pertusa 96 hours Chronic NOEC 0.1 ml/L Fresh water Daphnia - Daphnia magna Neonate 21 days
Dimethyl keytone: acetone Eyes - Mild irritant Human - 186300 parts per million - Eyes - Mild irritant Rabbit - 10 microliters Eyes Moderate irritant Rabbit - 24 hours 20 milligrams - Eyes - Severe irritant Rabbit - 20 milligrams - Skin - Mild irritant Rabbit 24 hours 500 milligrams - Skin - Mild irritant Rabbit – 395 milligrams LC50 Inhalation Vapor Rat 59528 ppm 1 hours LD50 Oral Rat 5800 mg/kg
Likely Routes of Exposure: Eyes, Skin and Inhalation.
Symptoms: Serious eye damage may occur. May include Irritation to respiratory tract, headache, dizziness and nausea. Skin irritation may include redness, drying, and cracking of the skin. Ingestion can result in gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions**.**
Carcinogenicity:
IARC: 2B - Group 2B: Possibly carcinogenic to humans (4-Methylpentan-2-one)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Section 12 – Ecological Information

Ecotoxicity: Ethanol; Ethyl alcohol 64-17-5 Toxicity to fish: LC50 Species: Leuciscus idus (Golden orfe) Dose: 8,140 mg/l Exposure time: 48 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 9,268 - 14,221 mg/l Exposure time: 48 h Methanol: Toxicity to fish LC0 - Leuciscus idus melanotus - 480 mg/l - 48 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,550 - 3,623 mg/l - 24 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 980 - 2,000 mg/l - 48 h
Persistence and Biodegradability: Methanol: Biotic/Aerobic - Exposure time 7 d
Bioaccumulative Potential: Not Available
Mobility in Soil: The product is insoluble in water and will spread on the water surface.

Section 13 – Disposal Consideration

US/RCRA Waste Disposal Methods: None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations (40 CFR 261.31, 32 and 33). However, disposed of water solutions containing this material are the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. Avoid repacking wet material in sealed containers. Dispose of waste material according to Local, State and Federal Environmental Regulations.

Section 14 – Transport Information

DOT: Proper shipping name: Alcohols UN-No. : 1987 Class: 3 Packing group: II Emergency Response Guidebook Number: 127

Section 15 – Regulatory Information

TSCA Status: On TSCA Inventory
DSL Status: All components of this product are on the Canadian DSL list.
SARA 311/312 Hazards: Fire Hazard - Acute Health Hazard - Chronic Health Hazard
SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313: 4-Methylpentan-2-one CAS-No. 108-10-1Revision Date1993-04-24
CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT) The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.
PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) Components Ethanol; Ethyl alcohol 64-17-5 4-Methylpentan-2-one CAS-No. 108-10-1
MASS RTK US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000) Components Ethanol; Ethyl alcohol 64-17-5 4-Methylpentan-2-one CAS-No. 108-10-1
NJ RTK US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) Components Ethanol; Ethyl alcohol 64-17-5 4-Methylpentan-2-one CAS-No. 108-10-1
SARA III US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause cancer. 4-ethylpentan-2-one CAS-No. 108-10-1 Revision Date 2011-11-18
Regulatory VOC (less water and exempt solvent)**:** 792 g/l
WHMIS (Canada): Class B-2: Flammable liquid Class D-2B: Material causing other toxic effects (Toxic). Dimethyl ketone (CAS 67-64-1)

Section 16 – Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This SDS complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200