

AMERICAN INTERNATIONAL INDUSTRIES2220 GASPAR AVENUE
LOS ANGELES, CA 90040
CHEM-TEL: (800) 255-3924**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** IBD Dehydrate **DATE:** 2/2/2005
FORMULA: 30-1311/60112 **REV.** NEW**Section 1. Material Identification and Information****Hazardous Ingredients:**

Component	CAS #	%	TOXICOLOGICAL DATA
Ethyl Acetate	141-78-6	>30%	OSHA TWA/STEL: 400ppm ACGIH TWA/STEL: 400ppm
Isopropyl Alcohol	67-63-0	>40%	OSHA TWA/STEL: 400ppm ACGIH TWA/STEL: 400ppm
Isobutyl Acetate	110-19-0	>20%	OSHA TWA/STEL: 150ppm ACGIH TWA/STEL: 150ppm

Section 2. Physical / Chemical Characteristics

Boiling Point: 77°C	Specific Gravity: N/A
Vapor Pressure: 77 mm Hg @ 20°C (mm Hg and Temperature)	(@ 25°C)
Vapor Density: 3 (Air = 1)	Melting Point: N/A
Solubility in Water: 8.7% @ 20°C	Evaporation Rate: 4.5 (Butyl Acetate = 1)
Appearance: Clear Colorless Mobile Liquid	Water Reactive: N/A
Odor: Fruity, Pungent Mix	pH: N/A
	% Volatile: 99%+

Section 3. Fire and Explosion Hazard Data

Flash Point:	68°C
Auto-Ignition Temperature:	No Data Available
Flammability Limits in Air % by Volume:	LEL: 2% UEL: 11.4%
Extinguisher Media:	Use CO ₂ or dry chemical for small fires or alcohol type aqueous film forming foam.
Fire Fighting Procedures:	If potential for exposure to vapors or products of combustion, wear complete personal protective equipment including self contained breathing apparatus, with full face operated in pressure demand. Fight fire from a safe distance/protected location.

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Flammable. When exposed to heat and flame, material is a fire explosion hazard. Vapor is heavier than air and can travel considerable distance to source of ignition and flash back. Material creates a special hazard if it floats on water.

Section 4. Reactivity Hazard Data**Stability:** Stable Unstable**Conditions to Avoid:** Keep away from heat, sparks and flame.**Incompatibility (Materials to Avoid):**

Oxidizing Agent i.e. Hydrogen peroxide, Nitric Acid, Perchloric Acid, Chromium Trioxide

Hazardous Decomposition:

Carbon Monoxide

Hazardous Polymerization: May Occur Will Not Occur**Section 5. Health Hazard Data****POTENTIAL HEALTH EFFECTS, SIGNS and SYMPTOMS OF EXPOSURE:****Primary Routes of Entry:** Inhalation Skin Absorption Ingestion Eye Contact

Eye: Liquid contact with eyes can cause irritation and possible corneal damage.

Skin: Repeated/prolonged contact may cause drying of skin. Symptoms include redness, burning, drying, cracking and skin burns.

Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

Inhalation: Vapors are irritating to nasal passages and throat and may cause stupor or headache.

Sub-Chronic Effects: Significant exposure to this chemical may adversely affect people with chronic disease or may cause damage to the respiratory system, skin and eyes.

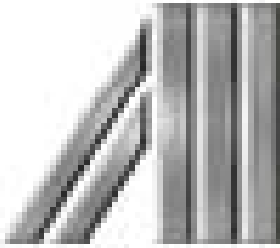
NOTE: Refer to Section 11, Toxicological Information for Details**Emergency First Aid Procedures:**

Eye Contact: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists.

Ingestion: If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation: Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort persists.

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Section 6. Control and Protective Measures

Engineering Controls:

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

General: Use complete protective equipment, as specified below. Provide eye wash stations and showers.

Respiratory Protections (Specific Type):

Use self contained breathing apparatus when needed.

Protective Gloves: Not required.

Eye/Face Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses.

Skin Protection: Wear chemical resistant neoprene or rubber gloves.

Section 7. Precautions for Safe Handling and Use / Leak Procedures

Steps to be Taken if Material is Spilled or Released:

Evacuate area and eliminate all possible sources of ignition. Use self-contained breathing apparatus and protective clothing. Dike and absorb with inert materials (sand, soda, ash, vermiculite, etc.) and then transfer to proper containers for disposal, using non-sparking tools. Keep spills out of sewers and open bodies of water. Remove saturated clothing and wash affected areas with soap and water.

Waste Disposal Methods:

Dispose of in accordance with your local, state, and federal regulations.

Handling:

Closed containers exposed to temperature above (120°F) in transit or storage may develop vapor pressure. Open containers slowly. Ground all metal containers when transferring material. Wash face and hands thoroughly with soap and water after handling and before eating, drinking or smoking.

Storage:

Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use.

Other Precautions and/or Special Hazards:

Flammable liquid. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Section 8. Toxicological Information

Acute Oral Toxicity:

Mouse: LD50 = 3600 mg/kg

Acute Dermal Toxicity:

No Data Available

Acute Inhalation Toxicity:

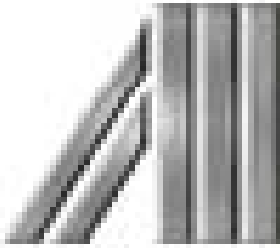
Rat = 1030 ug/m3/16W

Irritation – Skin:

Skin, rabbit: LD50 = 12800 mg/kg

Irritation - Eye:

No Data Available



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Sensitization	No Data Available		
Mutagenicity:	Rat = 1030 ug/m3/16W		
Sub-Chronic Toxicity:	No Data Available		

Section 9. Ecological Information

Ecotoxicological Information

Acute Toxicity to Fish:	The LC50/96-hour values for fish are over 100 mg/l.
Acute Toxicity to Invertebrates:	N/ DA
Acute Toxicity to Algae:	N/ DA
Bioconcentration:	N/ DA
Toxicity to Sewage Bacteria:	N/ DA

Chemical Fate Information:

Biodegradability: When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

Section 10. Disposable Concentrations

All notification, clean up and disposal should be carried out in accordance with Federal, State and Local government regulations. Mix with compatible chemical which is less flammable and incinerate.

Section 11. Transport Information

DOT/ UN Shipping Name: UN 1993; Flammable liquid, n.o.s. Class 3, PG II

Section 12. Regulatory Information

US Federal Regulations

Clean Air Act HAP/ODS:

This product contains the following HAP's or ODS: None

Clean Water Act Priority Pollutant:

The following ingredients are listed as hazardous pollutants under the CWA: Isobutyl Acetate CAS #110-19-0. None of the ingredients are listed as primary pollutants nor are they listed as toxic pollutants.

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FDA: Food Packaging Status:

This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food packaging additive.

Occupational Safety and Health Act:

This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are: Immediate (acute) health hazard, Fire hazard

SARA Title III: Section 302

This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Title III: Section 304:

This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): Ethyl Acetate CAS #141-78-6, RQ (Lbs) 5000, Isobutyl Acetate CAS # 110-19-0 RQ (Lbs) 5000.

SARA Title III: Section 311-312:

This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are: Immediate (acute) health hazard, Fire hazard

SARA Title III: Section 313:

This product contains the following chemicals which are 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: Isopropyl Alcohol CAS: 67-63-0

TSCA Section 8(b):

This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

RCRA:

This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261). Ethyl Acetate CAS #141-7-6 RCRA Code U112.

State Regulations**CA Right-to-Know Law:**

Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

MA Right-to-Know Law:

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

NJ Right-to-Know Law:

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

PA Right-to-Know Law:

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

FL Right-to-Know Law:

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

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MN Right-to-Know Law:

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List):

Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0, Isobutyl Acetate CAS #110-19-0.

EINECS: European Inventory:

- Isobutyl Acetate (203-745-1): Hazard Symbol (F), R Values (R11), S Values (S9, S16, S23, S29, S33)
- Ethyl Acetate (205-500-4): Hazard Symbol (XI F), R Values (R11, R36, R66, R67), S Values (S16, S26, S33)
- Isopropyl alcohol (200-661-7): Hazard Symbol (F), R Values (R11), S Values (S7, S16)

Section 13. Other Information

Hazard Rating System:

NFPA: Health = 2/Flammability = 3/Reactivity = 1
HMIS: Health = 2/Flammability = 3/Reactivity = 1