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Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/14/2015

Supersedes: 05/29/2015

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Šæ [] Á } ^ È } Á Ö ä Á / æ \ Á [] ~ ä } Á
Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : To remove ink and emulsion.

1.3. Details of the supplier of the safety data sheYh

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Ü ä } ~ ä, MU Î HFFÍ
Phone: HFI È H GÈ H È È
Web: www. | æ [] • . com
E-Mail: ä - { O * [| æ [] } È {

1.4. Emergency telephone number

CHEMTREC: USA/Canada 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT RE 1 H372
Asp. Tox. 1 H304

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US): **Danger**

Hazard statements (GHS-US): H304 - May be fatal if swallowed and enters airways; H315 - May cause skin irritation; H319 - May cause serious eye irritation; H372 - May cause damage to organs (thyroid gland) through extreme prolonged or repeated exposure

Precautionary statements (GHS-US): P260 - Do not breathe vapors, mist; P264 - Wash hands, forearms and face thoroughly after handling; P270 - Do not eat, drink or smoke when using this product; P280 - Wear eye protection, face protection, protective clothing, protective gloves; P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER; P302+P352 - If on skin: Wash with plenty of soap and water; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P314 - Get medical advice/attention if you feel unwell; P321 - Specific treatment (see first aid instructions on this label); P331 - Do NOT induce vomiting; P332+P313 - If skin irritation occurs: Get medical advice/attention; P337+P313 - If eye irritation persists: Get medical advice/attention; P362 - Take off contaminated clothing and wash before reuse; P501 - Dispose of contents/container to a facility that complies with all local, state, regional, federal, national, and international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	(CAS No) 88917-22-0	10 - 30
Aliphatic dibasic esters	Mixture	10 - 30
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	(CAS No) 577-11-7	7 - 13
Periodic acid (HIO4), sodium salt	(CAS No) 7790-28-5	1 - 5
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	(CAS No) 127087-87-0	1 - 5

SECTION 4: First Aid Measures

4.1. Description of first aid measures

- First-aid measures general : If concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May be fatal if swallowed and enters airways. May cause skin irritation. May cause serious eye damage. May cause damage to organs (thyroid gland) through extreme prolonged or repeated exposure.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : May cause serious eye damage.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.
- Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray. Sand.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Heating may cause a fire.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

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6.2. Environmental precautions

Prevent entry to untreated waste streams and public waters. Notify authorities if liquid enters untreated waste streams and or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep the container tightly closed. Avoid temperature extremes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate (88917-22-0)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Periodic acid (HIO4), sodium salt (7790-28-5)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment :



Eye protection : Wear safety glasses with side shields (or goggles).

Skin and body protection : Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed – apron, suit, boots.

Respiratory protection : NIOSH-approved (or equivalent) respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

Other Protective Equipment : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Clear.

Odor : Mild solvent.

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Odor Threshold	: No data available
pH	: 5 - 6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C (212 °F) (Setaflash)
Flash point	: > 93 °C (200 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: Heavier than air
Relative density	: 1.04 @ 20 °C (68 °F)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 300 g/l (2.5 lbs/gallon) tested by EPA Method 24

SECTION 10: Stability and reactivity

10.1. Reactivity	: No dangerous reactions known under normal conditions of use
10.2. Chemical stability	: Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions	: None known.
10.4. Conditions to avoid	: None known.
10.5. Incompatible materials	: Strong oxidizers. Acids. Alkalis.
10.6. Hazardous decomposition products	: Carbon oxides (CO, CO ₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

EasiSolv 1028 Ink & Emulsion Remover	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 11 mg/l/4h

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	10000 mg/kg

Ethyl alcohol (64-17-5)	
LC50 inhalation rat (mg/l)	124.7 mg/l/4h

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)	
LD50 oral rat	1310 mg/kg

Skin corrosion/irritation	: May cause skin irritation. pH: Neutral
Serious eye damage/irritation	: May cause serious eye damage. pH: Neutral
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause serious eye damage.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

Ethyl alcohol (64-17-5)

IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (thyroid gland) through extreme prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause serious eye damage.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

Ecology - general : No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT	: Not hazardous for transport
Other information	: No supplementary information available.
Transport by Sea	: No additional information available
Air transport	: No additional information available

SECTION 15: Regulatory information**15.1. US Federal regulations****EasiSolv 1028 Ink & Emulsion Remover**

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
 All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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Sulfuric acid (7664-93-9)

Section 302 (EHS) TPQ	1000 lb
Section 304 EHS RQ	1000 lb
CERCLA RQ	1000 lb
Section 313	Listed on US SARA Section 313

15.2. International regulations

No additional information available.

15.3. US State regulations**California Proposition 65**

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

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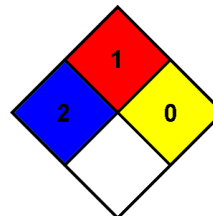
Ethyl alcohol (64-17-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	Not available

Ethyl alcohol (64-17-5)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Indication of changes : Revision 2.0: Sections 2, 3, 4, 6, 8, 11, 12.
 Revision date : 09/14/2015
 Other information : Author: KRH.

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
 NFPA fire hazard: 1 - Must be preheated before ignition can occur.
 NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
 NFPA specific hazard:



HMIS III Health: 2 - Temporary or minor injury may occur.
 HMIS III Flammability: 1- Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C).
 HMIS III Physical: 0 - Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.
 HMIS III Personal Protection: H - Gloves. Wear chemical goggles and face shield in combination. Protective clothing. Insufficient ventilation: wear respiratory protection.

Health	2
Flammability	1
Reactivity	0
Personal Protection	C

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product