

# Safety Data Sheet

## DRI-TEK

### 1. Product and company identification

**Product name** : DRI-TEK

**Synonym** : bucs; butoksyetylowy alkohol (polish); 2-butossi-etanolo (italian); 2-butoxy-aethanol (german); butoxyethanol; n-butoxyethanol; 2-butoxyethanol; 2-butoxy-1-ethanol; butyl cellosolve; o-butyl ethylene glycol; butyl glycol; butylglycol (french,german); butyl oxitol; downanol eb; ethylene glycol n-butyl ether; ethylene glycol, monobutyl ether; gafcol eb; glycol butyl ether; glycol monobutyl ether; monobutyl ether of ethylene glycol; monobutyl glycol ether; 3-oxa-1-heptanol; poly-solv eb; ethanol,2-butoxy-; ethylene glycol monobutyl ether; butoksyetylowy alkohol (polish)

**INCI Name** : BUTOXYETHANOL

**CAS number** : 111-76-2

**Material uses** : Other non-specified industry: SOLVENT FOR NITROCELLULOSE RESINS; SPRAY LACQUERS; QUICK-DRYING LACQUERS; VARNISHES; ENAMELS; DRYCLEANING COMPOUNDS; VARNISH REMOVERS; TEXTILE (PREVENTING SPOTTING IN PRINTING OR DYEING); MUTUAL SOLVENT FOR "SOLUBLE" MINERAL OILS TO HOLD SOAP IN SOLUTION AND TO IMPROVE THE EMULSIFYING PROPERTIES.

**Internal code** : IFS0015

**System code** : IFS0015

**Supplier** : Innospec Fuel Specialties LLC  
8310 South Valley Highway  
Suite 350  
Englewood  
CO, 80112  
USA

**Information contact** : 1-800-441-9547

**e-mail address of person responsible for this SDS** : sdsinfo@innospecinc.com

**NON-emergency enquiries** : corporatecommunications@innospecinc.com

**Emergency telephone number**

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

**Country information** : **Emergency telephone number**

USA, Canada, Puerto Rico, Virgin Islands : +1 800 424 9300

In case of difficulties, or for ships at sea : +1 703 527 3887

In Europe, Middle East, Africa, Asia Pacific and South America  
24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



**Country information** : **Emergency telephone number**    **Location**

South America ( all countries ) : +1 215 207 0061    Philadelphia USA

Brazil : +55 113 711 9144    Brazil

Mexico : +52 555 004 8763    Mexico

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# 1. Product and company identification

Europe ( all countries ) Middle East, Africa ( French, Portuguese, English )	: +44 (0) 1235 239 670	London, UK
Middle East, Africa ( Arabic, French, English )	: +44 (0) 1235 239 671	Lebanon
Asia Pacific ( all countries except China )	: +65 3158 1074	Singapore
China	: +86 10 5100 3039	Beijing China

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 4  
 ACUTE TOXICITY (dermal) - Category 4  
 ACUTE TOXICITY (inhalation) - Category 4  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

### GHS label elements

#### Hazard pictograms



**Signal word** : Warning

**Hazard statements** : H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.  
 H319 - Causes serious eye irritation.  
 H315 - Causes skin irritation.

### Precautionary statements

#### Prevention

: P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P261 - Avoid breathing vapor.  
 P270 - Do not eat, drink or smoke when using this product.  
 P264 - Wash hands thoroughly after handling.

#### Response

: P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.  
 P302 + P352 + P312 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing. Wash contaminated clothing before reuse.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

**Target organs** : Causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.  
 May cause damage to the following organs: eyes.

See toxicological information (Section 11)

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Substance
<b>Chemical name</b>	: 2-butoxyethanol
<b>Other means of identification</b>	: bucs; butoksyetylowy alkohol (polish); 2-butossi-etanolo (italian); 2-butoxy-aethanol (german); butoxyethanol; n-butoxyethanol; 2-butoxyethanol; 2-butoxy-1-ethanol; butyl cellosolve; o-butyl ethylene glycol; butyl glycol; butylglycol (french,german); butyl oxitol; dowanol eb; ethylene glycol n-butyl ether; ethylene glycol, monobutyl ether; gafcol eb; glycol butyl ether; glycol monobutyl ether; monobutyl ether of ethylene glycol; monobutyl glycol ether; 3-oxa-1-heptanol; poly-solv eb; ethanol,2-butoxy-; ethylene glycol monobutyl ether; butoksyetylowy alcohol (polish)

Ingredient name	%	CAS number
2-butoxyethanol; butyl cellosolve	60 - 100	111-76-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Causes serious eye irritation.
<b>Inhalation</b>	: Harmful if inhaled.

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## Section 4. First aid measures

- Skin contact** : Harmful in contact with skin. Causes skin irritation.
- Ingestion** : Harmful if swallowed. Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Flash point** : Closed cup: 65.556°C (150°F) [Pensky-Martens.]  
Open cup: 61.85°C (143.3°F)

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



## Section 6. Accidental release measures

- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
2-butoxyethanol; butyl cellosolve	<p><b>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.</b></p> <p>TWA: 25 ppm, 0 times per shift, 8 hours. TWA: 120 mg/m<sup>3</sup>, 0 times per shift, 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013). Absorbed through skin.</b></p> <p>TWA: 5 ppm, 0 times per shift, 10 hours. TWA: 24 mg/m<sup>3</sup>, 0 times per shift, 10 hours.</p> <p><b>ACGIH TLV (United States, 4/2014).</b></p> <p>TWA: 20 ppm, 0 times per shift, 8 hours.</p> <p><b>OSHA PEL (United States, 2/2013). Absorbed through skin.</b></p> <p>TWA: 50 ppm, 0 times per shift, 8 hours.</p>

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## Section 8. Exposure controls/personal protection

2-butoxyethanol; butyl cellosolve

TWA: 240 mg/m<sup>3</sup>, 0 times per shift, 8 hours.

**OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.**

TWA: 25 ppm, 0 times per shift, 8 hours.

TWA: 120 mg/m<sup>3</sup>, 0 times per shift, 8 hours.

**NIOSH REL (United States, 10/2013). Absorbed through skin.**

TWA: 5 ppm, 0 times per shift, 10 hours.

TWA: 24 mg/m<sup>3</sup>, 0 times per shift, 10 hours.

**ACGIH TLV (United States, 4/2014).**

TWA: 20 ppm, 0 times per shift, 8 hours.

**OSHA PEL (United States, 2/2013). Absorbed through skin.**

TWA: 50 ppm, 0 times per shift, 8 hours.

TWA: 240 mg/m<sup>3</sup>, 0 times per shift, 8 hours.

### Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

##### Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### Body protection

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Other skin protection

- : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

- : Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Liquid. [COLORLESS LIQUID]
<b>Color</b>	: Colorless.
<b>Odor</b>	: MILD, ETHER-LIKE ODOR
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: -74.8°C (-102.6°F)
<b>Boiling point</b>	: 168.4 to 170.85°C (335.1 to 339.5°F)
<b>Flash point</b>	: Closed cup: 65.556°C (150°F) [Pensky-Martens.] Open cup: 61.85°C (143.3°F)
<b>Evaporation rate</b>	: 0.072 compared with butyl acetate
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Lower: 1.1% Upper: 10.6%
<b>Vapor pressure</b>	: 0.08 kPa (0.6 mm Hg) (at 20°C)
<b>Vapor density</b>	: 4.07 (Air = 1)
<b>Density</b>	: 0.903 g/cm <sup>3</sup> [20°C (68°F)]
<b>Specific gravity</b>	: 0.9
<b>Density</b>	: 7.514 lbs/gal
<b>Solubility</b>	: Easily soluble in the following materials: cold water, hot water.
<b>Partition coefficient: n-octanol/water</b>	: 0.83
<b>Auto-ignition temperature</b>	: 244°C (471.2°F)
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Test	Species	Result	Dose
2-butoxyethanol	-	Rat	LD50 Oral	250 mg/kg
2-butoxyethanol	-	Rat	LC50 Inhalation Vapor	450 ppm

#### Potential chronic health effects

Not available.

#### Irritation/Corrosion

Date of issue/Date of revision : 2015-05-29

## Section 11. Toxicological information

Product/ingredient name	Test	Species	Result
2-butoxyethanol	-	Rabbit	Eyes - Moderate irritant -
	-	Rabbit	Eyes - Severe irritant -
	-	Rabbit	Skin - Mild irritant -
2-butoxyethanol	-	Rabbit	Eyes - Moderate irritant -
	-	Rabbit	Eyes - Severe irritant -
	-	Rabbit	Skin - Mild irritant -

**Sensitization**

Not available.

**Mutagenicity**

Not available.

**Carcinogenicity**

**Classification**

Product/ingredient name	OSHA	IARC	NTP
2-butoxyethanol; butyl cellosolve	-	3	-

**Reproductive toxicity**

Not available.

**Teratogenicity**

Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

## Section 12. Ecological information

**Toxicity**

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol; butyl cellosolve	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1490 mg/l	Fish	96 hours
	Chronic NOEC 1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-butoxyethanol; butyl cellosolve	Acute EC50 911 mg/l	Algae	72 hours
	Acute EC50 >1800 mg/l	Daphnia	48 hours
	Acute LC50 1490 mg/l	Fish	96 hours
	Chronic NOEC 1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

**Persistence and degradability**

**Bioaccumulative potential**




## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-butoxyethanol; butyl cellosolve	0.83	-	low
2-butoxyethanol; butyl cellosolve	0.83	-	low

## Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
<b>UN number</b>	NA1993	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	Combustible liquid, n.o.s. (2-butoxyethanol)	-	-
<b>Transport hazard class(es)</b>	Combustible liquid. 	-	-
<b>Packing group</b>	III	-	-
<b>Environmental hazards</b>	No.	No.	No.
<b>Additional information</b>	<p><b>Limited quantity</b> Yes.</p> <p><b>Packaging instruction</b> <b>Passenger aircraft</b> Quantity limitation: 60 L</p> <p><b>Cargo aircraft</b> Quantity limitation: 220 L</p> <p><b>Special provisions</b> IB3,T1, T4, TP1 This material is not regulated under 49CFR 173.150(f) in a container of 119 gallon capacity or less when transported solely by land, as long as the material is not a hazardous waste, a marine</p>	-	-

## Section 14. Transport information

	pollutant, or specifically listed as a hazardous substance. The requirements of this subchapter, 49CFR 171.4(c), specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.		
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**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b):** All components are listed or exempted.

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 311/312**

**Classification** : Immediate (acute) health hazard

**Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2-butoxyethanol; butyl cellosolve	60 - 100	Yes.	No.	No.	Yes.	No.

**SARA 313**

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	2-butoxyethanol	111-76-2	60 - 100
<b>Supplier notification</b>	2-butoxyethanol	111-76-2	60 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

- Massachusetts** : The following components are listed: 2-BUTOXYETHANOL
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: 2-BUTOXY ETHANOL; BUTYL CELLOSOLVE
- Pennsylvania** : The following components are listed: ETHANOL, 2-BUTOXY-
- California Prop. 65** : CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer, birth defects or other reproductive harm.

**International lists**

**National inventory**

## Section 15. Regulatory information

<b>Australia inventory (AICS)</b>	: All components are listed or exempted.
<b>Canada inventory</b>	: All components are listed or exempted.
<b>China inventory (IECSC)</b>	: All components are listed or exempted.
<b>Europe inventory</b>	: All components are listed or exempted.
<b>Japan inventory (ENCS)</b>	: All components are listed or exempted.
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	: All components are listed or exempted.
<b>Philippines inventory (PICCS)</b>	: All components are listed or exempted.
<b>Korea inventory (KECI)</b>	: All components are listed or exempted.
<b>Taiwan inventory (TCSI)</b>	: All components are listed or exempted.
<b>United States inventory (TSCA 8b)</b>	: All components are listed or exempted.

Our REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and
  2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations
- Customers and other third parties importing and/or re-importing our products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
  - In the case of importation only, to make use of the "Only Representative" provisions, if available.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		2
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

<b>Risk phrases</b>	: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/38- Irritating to eyes and skin.
<b>Safety phrases</b>	: S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.

### History

<b>Date of printing</b>	: 2015-05-29
<b>Date of issue/Date of revision</b>	: 2015-05-29

**Date of issue/Date of revision** : 2015-05-29

## Section 16. Other information

<b>Date of previous issue</b>	: No previous validation
<b>Version</b>	: 1
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

✔ Indicates information that has changed from previously issued version.

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