

Printing date 01/29/2018

Reviewed on 01/29/2018

1 Identification

· Product identifier

· Trade name: ALCOHOL SUBSTITUTE 223-45

· Article number: HG08

· Application of the substance / the mixture Wetting Agent

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Printers' Service, Inc. 26 Blanchard Street Newark, NJ 07105

USA

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· Information department: 1-973-589-7800, Prisco email address - safety@prisco.com

• Emergency telephone number: CHEMTREC (24 hr) 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

Flam. Liq. 4 H227 Combustible liquid.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

Hazard-determining components of labeling: ingredient (TSRN3329)
2,2'-oxybisethanol
Hazard statements
Combustible liquid.
Harmful in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
Keep away from flames and hot surfaces. – No smoking.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present Continue rinsing.	and easy to do.
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or foam.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulation	lS.
· Classification system:	
\cdot NFPA ratings (scale 0 - 4)	
 <i>i HMIS-ratings</i> (<i>scale 0 - 4</i>) <i>i HEALTH</i> 2 <i>i FIRE</i> 1 <i>i REACTIVITY</i> 0 <i>Other hazards</i> <i>Results of PBT and vPvB assessment</i> <i>PBT: Not applicable.</i> <i>vPvB: Not applicable.</i> 	
3 Composition/information on ingredients · Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 111-76-2 2-butoxyethanol	40-60%
RTECS: KJ 8575000	
CAS: 112-34-5 diethylene glycol monobutyl ether	10-20%
RTECS: KJ 9100000	10 20/0

CAS: 111-46-62,2'-oxybisethanol10-20%RTECS: ID 5950000CAS: 770-35-41-Phenoxypropan-2-ol10-20%ingredient (TSRN3329)10-20%10-20%• Additional information: For the wording of the listed hazard phrases refer to section 16.10-20%

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• *After inhalation:* In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

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• After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- \cdot Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and place into removal containers

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- PAC-1:

All ingredients are listed.

- <u>PAC-2:</u>
- All ingredients are listed.
- PAC-3:

All ingredients are listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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C	ional information about design of technical systems: No further data; see item 7.
	rol parameters ponents with limit values that require monitoring at the workplace:
	ollowing constituents are the only constituents of the product which have a PEL, TLV or other recommendation of the product which have a PEL.
	ure limit.
At thi	s time, the other constituents have no known exposure limits.
111-7	76-2 2-butoxyethanol
PEL	Long-term value: 240 mg/m³, 50 ppm Skin
REL	Long-term value: 24 mg/m³, 5 ppm Skin
TLV	Long-term value: 97 mg/m³, 20 ppm BEI
112-3	24-5 diethylene glycol monobutyl ether
TLV	Long-term value: 67.5* mg/m³, 10* ppm *Inhalable fraction and vapor
111-4	16-6 2,2'-oxybisethanol
WEEL	L Long-term value: 10 mg/m ³
57-55	i-6 propylene glycol
	L Long-term value: 10 mg/m ³ dients with biological limit values:
111-7	16-2 2-butoxyethanol
BEI 2	100 mg/g creatinine
	Iedium: urine
	Time: end of shift
	Parameter: Butoxyacetic acid with hydrolysis ional information: The lists that were valid during the creation were used as basis.
	sure controls
	nal protective equipment:
	ral protective and hygienic measures: away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	protective clothing separately.
	contact with the eyes and skin.
	hing equipment:
	se of intensive or longer exposure use respiratory protective device that is independent of circulating air.
	ble respiratory protective device recommended, but not necessary if room is well-ventilated. ction of hands:
	love material has to be impermeable and resistant to the product/ the substance/ the preparation.
	rial of gloves
• Mater	nd the recommended glove material to use when handing Prisco® pressroom chemistry we advise to
To fin	misso com Change logation & motomed language and so to the "Cumpart" dues down how where
To fin www.	prisco.com. Choose location & preferred language and go to the "Support" drop-down box where
To fir www. select	t: "Safety Glove Recommendation". Now click on the PDF-hyperlink to obtain the document in the langu
To fin www. select of you	

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• **Penetration time of glove material** The exact breakthrough time has to be for

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

 \cdot Eye protection:



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Tightly sealed goggles

General Information		
Appearance: Form: Color: Odor: Odor threshold:	Liquid Clear Characteristic Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not Applicable 100 °C (212 °F)	
Flash point:	67 °C (152.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not information available	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.	
Explosion limits: Lower: Upper:	1.1 Vol % 10.6 Vol %	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.99 g/cm ³ (8.26 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Soluble.	
Partition coefficient (n-octanol/wat	t er): Not determined.	
Viscosity: Dynamic: Kinematic:	Not applicable. Not determined.	
Solvent content: VOC content Other information	641.0 g/l / 5.35 lb/gl No further relevant information available.	

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10 Stability and reactivity

• Reactivity Avoid strong oxidizing agents, strong bases and strong acids.

· Chemical stability Stable under normal conditions

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:

Nitrogen oxides

Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

111-76-2 2-butoxyethanol

Oral LD50 1,480 mg/kg (rat)

Dermal LD50 400 mg/kg (rab)

ingredient (TSRN3329)

Oral LD50 2,050 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rab)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Product may cause irritation.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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•	Results	of PBT	and vPvB	assessment
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· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Product must not be disposed of together with household refuse. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

DOT ADV					
· DOT, ADN · UN proper shipping name	Non regulated				
· ON proper suppling name · DOT, ADR, ADN	Non regulated				
• Transport hazard class(es)	Non regulated				
· DOT					
C RATE OF C					
· Class	Non regulated				
· Class	Non regulated				
· Packing group					
· DOT, ADR	Non regulated				
· Environmental hazards:	Not applicable.				
 Special precautions for user 	Not applicable.				
	· Transport in bulk according to Annex II of				
MARPOL73/78 and the IBC Code	Not applicable.				
·DOT	Not regulated in containers under 119 gallons.				
· UN "Model Regulation":	Non regulated				
15 Regulatory information	ons/legislation specific for the substance or mixture	е			
 Safety, health and environmental regulati Sara Section 355 (extremely hazardous substant) 	aces):				
· Sara	nces):				
 Sara Section 355 (extremely hazardous substant 75-21-8 ethylene oxide 75-56-9 propylene oxide 					
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ι απαλαμά κτομοείτιση με ντατόμους	CATED IN CALIFORNIA
<i>California Proposition 65 Statements</i> Warning: This product contains a chemical known to the State of California to ca	use cancer.
Warning: This product contains a chemical known to the State of California	
reproductive harm.	······································
California Proposition 65 chemicals known to cause cancer:	
75-21-8 ethylene oxide	
75-56-9 propylene oxide	
123-91-1 1,4-dioxane	
California Proposition 65 chemicals known to cause reproductive toxicity for fe	males:
75-21-8 ethylene oxide	
California Proposition 65 chemicals known to cause reproductive toxicity for m	ales:
75-21-8 ethylene oxide	
-	
109-86-4 2-methoxyethanol	
California Proposition 65 chemicals known to cause developmental toxicity:	
107-21-1 ethylene glycol	
75-21-8 ethylene oxide	
109-86-4 2-methoxyethanol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
NONE OF the ingreatents is listed. NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
GHS label elements The product is classified and labeled according to the Globa	lly Harmonized System (GHS)
Hazard pictograms	(GIIS)
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$\mathbf{A} \mathbf{A}$	
GHS07 GHS08	
GHS07 GHS08	
GHS07 GHS08 Signal word Warning	
GHS07 GHS08	
Visition Visition GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol	
Visition Visition GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements	
V V GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid.	
V V GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin.	
Question Question GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin. Causes skin irritation.	
Question Question GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation.	
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View of the second statements GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.	
View of the second statements GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.	
View of the second statements GHS07 GHS08 Signal word Warning Hazard-determining components of labeling: ingredient (TSRN3329) 2,2'-oxybisethanol Hazard statements Combustible liquid. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.	

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Ĝet medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO2, powder or foam.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Contact: CHEMTREC (24hr) 1-800-424-9300, Printers Service 1-973-589-7800
- · Date of preparation / last revision 01/29/2018 / -

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA:** Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 \cdot * Data compared to the previous version altered. USA

[·] Abbreviations and acronyms: