

**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **SPEKLEAN****Recommended use of the chemical and restrictions on use**: Water-based Degreaser and Cleaner  
: Restriction on use: None known  
: Mixture**Chemical family****Name, address, and telephone number  
of the manufacturer or supplier:****SCL (Trinidad) Limited.**LP #45, Saddle Road,  
San Juan, Trinidad,  
West Indies

Supplier's Telephone #

: 1 868 675 5555

**24 Hr. Emergency Tel #**: **CHEMTREC assistance, call: 800-424-9300****SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Clear fluorescent yellow liquid. Mild solvent odor.

Hazard classification:

Flammable Liquid - 0

Acute Toxicity, inhalation - Category 1 (mist)

Acute toxicity, dermal - Category 1

Acute toxicity, oral - Category 1

Skin Irritation - Category 1

Serious eye damage/eye irritation - Category 2A

**Label elements***Hazard pictogram(s)**Signal Word***DANGER!***Hazard statement(s)*Harmful in contact with  
skin.

Harmful if swallowed.

Causes serious eye irritation.

Causes skin irritation.

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### Precautionary statement(s)

Avoid breathing mist.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only in a well-ventilated area.  
 Wear protective gloves/clothing and eye/face protection.

If on skin: Wash with plenty of soap and water.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation occurs, get medical advice/attention.  
 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/attention.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 If swallowed: Call a poison center/doctor if you feel unwell.  
 Rinse mouth.

Store in a well-ventilated place. Keep container tightly closed.  
 Keep cool.  
 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

Other hazards which do not result in classification:  
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard.  
 Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
2-butoxyethanol Isopropyl Alcohol	Glycol Ether EB Isopropanol	111-76-2 67-63-0	2 - 5 5 - 10

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person.  
Get medical attention if symptoms persist.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : If on skin: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
- Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists, get medical advice/attention.

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

- : Harmful in contact with skin. Irritating if inhaled. Causes skin irritation. Harmful if swallowed. Contact may cause redness, swelling and a painful sensation. Causes serious eye irritation. Symptoms may include tearing, redness and discomfort. May cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard
- material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing. Inhaling high concentrations may cause central nervous system depression, with effects ranging from dizziness and headache to unconsciousness. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data.

### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

None required. Product is non-flammable

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### Methods and material for containment and cleaning up

- : Prevent further leakage or spillage if safe to do so. Absorb material with inert absorbent, and place into labelled containers for disposal. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

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### Special spill response procedures

: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements. US CERCLA Reportable quantity (RQ): None.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Use only in well-ventilated areas. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.  
Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Keep container tightly closed.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
2-butoxyethanol	20 ppm	N/Av	50 ppm (skin)	N/Av

#### Exposure controls

##### Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

##### Skin protection

: Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

##### Eye / face protection

: Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

**Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

: Avoid breathing mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear fluorescent yellow liquid.

**Odour** : Mild solvent odour.

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<b>Odour threshold</b>	: 0.48 ppm
<b>pH</b>	: 10.5 – 11.5
<b>Melting/Freezing point</b>	: 0°C
<b>Initial boiling point and boiling range</b>	: 100°C
<b>Flash point</b>	: Not applicable
<b>Flashpoint (Method)</b>	:
<b>Flammability (solid, gas)</b>	: Not applicable.
<b>Lower flammable limit (% by vol.)</b>	: Not available.
<b>Upper flammable limit (% by vol.)</b>	: Not available.
<b>Oxidizing properties</b>	: None known.
<b>Vapour pressure</b>	: Not available
<b>Vapour density</b>	: (Air = 1) 4
<b>Relative density / Specific gravity</b>	: 1.045
<b>Solubility in water</b>	: Totally miscible with water
<b>Decomposition temperature</b>	: Not known.
<b>Viscosity</b>	: Not available.
<b>Volatiles (% by weight)</b>	: 10-15

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Not normally reactive.
<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Prolonged storage. Do not allow evaporation to dryness.
<b>Incompatible materials</b>	: Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### **Information on likely routes of exposure:**

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**  
: YES

#### **Potential Health Effects:**

##### **Signs and symptoms of short-term (acute) exposure**

###### *Sign and symptoms Inhalation*

: Harmful if inhaled. May cause respiratory irritation. Symptoms may include coughing and sneezing. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness. Could result in pulmonary edema (fluid accumulation).

###### *Sign and symptoms ingestion*

: Harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. May be an aspiration hazard.

###### *Sign and symptoms skin*

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).  
Skin irritation. Category 2 Causes skin irritation.  
Toxic in contact with skin. May be absorbed and cause symptoms similar to those for inhalation.

###### *Sign and symptoms eyes*

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).  
Eye damage/irritation Category 2A Causes serious eye irritation.

##### **Potential Chronic Health Effects**

: Repeated exposure may cause skin dryness or cracking. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data.

##### **Mutagenicity**

: Not expected to be mutagenic in humans.

##### **Carcinogenicity**

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

##### **Reproductive effects & Teratogenicity**

: This product is not expected to cause reproductive or developmental effects.

##### **Sensitization to material**

: Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

##### **Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

##### **Synergistic materials**

: No information available.

##### **Toxicological data**

: See below for toxicological data on the substance.  
Acute Toxicity, inhalation – Category 1  
Acute toxicity, dermal - Category 1  
Acute toxicity, oral - Category 1

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<u>Chemical name</u>	<b>LC<sub>50</sub>(4hr)</b>	<b>LD<sub>50</sub></b>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
2-butoxyethanol	450 ppm (2.175 mg/L)	530 mg/kg	400 - 500 mg/kg
Isopropyl Alcohol	72600 mg/m <sup>3</sup>	5000 mg/kg	12,800 mg/kg

**Other important toxicological hazards**  
: None reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<b>CAS No</b>	<b>Toxicity to Fish</b>		
		<b>LC50 / 96h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
2-butoxyethanol	111-76-2	1490 mg/L (Lepomis macrochirus)	>100 mg/L (Zebra fish)	none

<u>Ingredients</u>	<b>CAS No</b>	<b>Toxicity to Daphnia</b>		
		<b>EC50 / 48h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 (Daphnia magna)	none

<u>Ingredients</u>	<b>CAS No</b>	<b>Toxicity to Algae</b>		
		<b>EC50 / 96h or 72h</b>	<b>NOEC / 96h or 72h</b>	<b>M Factor</b>
2-butoxyethanol	111-76-2	911 mg/L (Green algae)	286 mg/L (Green algae)	none

**Persistence and degradability**  
: Readily biodegradable.

**Bioaccumulation potential** : Not expected to bioaccumulate.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
2-butoxyethanol (CAS 111-76-2)	0.81 at 25 °C	0.97

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**  
: None known.





### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

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**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION					
Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	Not regulated for road or rail shipment if packaged in non-bulk containers (1000 Litres or less each).				
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: This information is not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:



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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
2-butoxyethanol	111-76-2	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements. No data

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
2-butoxyethanol	111-76-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

### Canadian Information:

Canadian Environmental Protection Act (CEPA): . All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
2-butoxyethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154

## SECTION 16. OTHER INFORMATION

### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
 AICS: Australian Inventory of Chemical Substances  
 ATE: Acute Toxicity Estimate  
 CA: California  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CSA: Canadian Standards Association  
 DOT: Department of Transportation  
 ECHA: European Chemicals Agency  
 ECOTOX: U.S. EPA Ecotoxicology Database  
 EINECS: European Inventory of Existing Commercial chemical Substances  
 ENCS: Existing and New Chemical Substances  
 EPA: Environmental Protection Agency  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer

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IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
IUCLID: International Uniform Chemical Information Database  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet / Material Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2016
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2016 version.
6. California Proposition 65 List - 2016 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

**Preparation Date (mm/dd/yyyy)**

: Nov 2022

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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