



# SAFETY DATA SHEET

Page 1 of 6  
MSDS-E-D100S-2

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58/EC & 1272/2008/EC Standards

MSDS Revision: 2.1

MSDS Revision Date: 08/20/2013

## 1. PRODUCT IDENTIFICATION

1.1	Product Name: <b>DeoxIT® D-Series, 100% Spray, (P/N D100S-2), 57 g</b>
1.2	Chemical Name: <b>See ingredients listed in section 3</b>
1.3	Synonyms: <b>DeoxIT®, D100S-2, 100% Spray</b>
1.4	Trade Names: <b>DeoxIT®, D100S-2, 100% Spray</b>
1.5	Product Use: <b>Clean, Deoxidize &amp; Improve Electrical Contacts &amp; Connectors</b>
1.6	Manufacturer's Name: <b>CAIG Laboratories, Inc.</b>
1.7	Manufacturer's Address: <b>12200 Thatcher Court, Poway, CA 92064-6876 USA</b>
1.8	Emergency Phone: <b>CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887</b>
1.9	Business Phone: <b>+1 (800)-224-4123</b>

## 2. HAZARD IDENTIFICATION

2.1	Hazard Identification: <b>This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008(2004) and ADG Code (Australia).</b> <b>WARNING! Flammable aerosol. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces.</b> <b>Hazard Statements (H): H223 – Flammable aerosol.</b> <b>Precautionary Statements (P): P210 – Keep away from heat/sparks/open flames/hot surfaces. P211 – Do not spray on an open flame or other ignition source. P251 – Pressurized container. Do not pierce or burn, even after use. P280 – Wear protective gloves and eyewear. P302 + P352 – IF ON SKIN – Wash with plenty of soap and water. P312 – Call a Poison Control Center or doctor/physician if you feel unwell. P333 + P313 – If skin irritation or rash occurs, get medical advice/attention. P321 – Refer to section 4 of this Safety Data Sheet (First Aid). P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P501 – Dispose of contents/container through licensed treatment, storage or disposal facility.</b>		
2.2	Routes of Entry: Inhalation: <b>YES</b> Absorption: <b>YES</b> Ingestion: <b>YES</b>		
2.3	Effects of Exposure: <b>EYES: Mild to moderate irritation.</b> <b>SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash).</b> <b>INGESTION: Gastrointestinal irritation and central nervous system depression.</b> <b>INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.</b>		
2.4	Symptoms of Overexposure: <b>EYES: Mild irritation, redness, and watering.</b> <b>SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching.</b> <b>INGESTION: Nausea, vomiting, and diarrhea.</b> <b>INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination.</b>		
2.5	Acute Health Effects: <b>INGESTION: Gastrointestinal irritation and central nervous system depression.</b> <b>EYES: Mild to moderate irritation.</b> <b>SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash).</b> <b>INGESTION: Gastrointestinal irritation and central nervous system depression.</b> <b>INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.</b>		
2.6	Chronic Health Effects: <b>EYES: Mild to moderate irritation.</b> <b>SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash).</b> <b>INGESTION: Gastrointestinal irritation and central nervous system depression.</b> <b>INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.</b>		
2.7	Target Organs: <b>Eyes, skin and respiratory system.</b>		

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used  
NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



# SAFETY DATA SHEET

Page 2 of 6  
MSDS-E-D100S-2

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## 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR								
					ACGIH		NOHSC			OSHA			OTHER
					ppm (mg/m <sup>3</sup> )		ppm (mg/m <sup>3</sup> )			ppm (mg/m <sup>3</sup> )			
TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH						
1,1-DIFLUOROETHANE (R-152a)	75-37-6	KI1410000	200-866-1	60-100	1000	NA	1000	NA	NA	NE	NA	NA	
DeoxIT® D-Series, D100L	TRADE SECRET			7-13	NA	NA	NA	NA	NA	NA	NA	NA	

## 4. FIRST AID MEASURES

4.1	<p>First Aid:</p> <p><b>EYES:</b> Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.</p> <p><b>SKIN:</b> Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p><b>INGESTION:</b> Drink plenty of water. If irritation persists, contact a physician.</p> <p><b>INHALATION:</b> Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration.</p>												
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>None reported by the manufacturer.</p> <table border="1" style="float: right;"> <tr><td><b>HEALTH</b></td><td><b>1</b></td></tr> <tr><td><b>FLAMMABILITY</b></td><td><b>2</b></td></tr> <tr><td><b>PHYSICAL HAZARDS</b></td><td><b>0</b></td></tr> <tr><td><b>PROTECTIVE EQUIPMENT</b></td><td><b>B</b></td></tr> <tr><td>EYES</td><td>SKIN</td><td></td><td></td></tr> </table>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>2</b>	<b>PHYSICAL HAZARDS</b>	<b>0</b>	<b>PROTECTIVE EQUIPMENT</b>	<b>B</b>	EYES	SKIN		
<b>HEALTH</b>	<b>1</b>												
<b>FLAMMABILITY</b>	<b>2</b>												
<b>PHYSICAL HAZARDS</b>	<b>0</b>												
<b>PROTECTIVE EQUIPMENT</b>	<b>B</b>												
EYES	SKIN												

## 5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: <b>240 °C (464 °F)</b>
5.2	Autoignition Temperature: <b>NA</b>
5.3	Flammability Limits: Lower Explosive Limit (LEL): <b>3.9</b> Upper Explosive Limit (UEL): <b>16.9</b>
5.4	Fire & Explosion Hazards: <b>Level 2 Aerosol. Carbon dioxide, carbon monoxide, hydrocarbons.</b>
5.5	Extinguishing Methods: <b>CO<sub>2</sub>, Alcohol foam, Dry Chemical, Water Fog</b>
5.6	Firefighting Procedures: <b>Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.</b>

## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: <b>Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements.</b>
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# SAFETY DATA SHEET

Page 3 of 6  
MSDS-E-D100S-2

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MSDS Revision: 2.1

MSDS Revision Date: 08/20/2013

## 7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: <b>Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.</b>
7.2	Storage & Handling: <b>Store at temperatures between 59-95 °F (15-35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Normal shelf-life: 2-3 years.</b>
7.3	Special Precautions: <b>Empty containers can contain flammable vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.</b>

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: <b>Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).</b>
8.2	Respiratory Protection: <b>None required, when used with adequate ventilation.</b>
8.3	Eye Protection: <b>Wear safety glasses with side shields (ANSI Z87) under normal use conditions.</b>
8.4	Hand Protection: <b>None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves.</b>
8.5	Body Protection: <b>Use as necessary to prevent skin contact.</b>

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	<b>0.75 – 0.85</b>
9.2	Boiling Point:	<b>-25 °C @ 760 mmHg</b>
9.3	Melting Point:	<b>NA</b>
9.4	Evaporation Rate:	<b>0.11 (n-Butyl Acetate = 1.0)</b>
9.5	Vapor Pressure:	<b>87 psig @ 20 °C</b>
9.6	Molecular Weight:	<b>NA</b>
9.7	Appearance & Color:	<b>Light red, aerosol</b>
9.8	Odor Threshold:	<b>Ethereal/hydrocarbon odor</b>
9.9	Solubility:	<b>Not soluble in water</b>
9.10	pH	<b>ND</b>
9.11	Viscosity:	<b>10.0 cPs</b>
9.12	Other Information:	<b>Vapor Density = 2.4 (Air = 1.0)</b>

## 10. STABILITY & REACTIVITY

10.1	Stability: <b>Stable under normal conditions of use (see section 7).</b>
10.2	Hazardous Decomposition Products: <b>Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.</b>
10.3	Hazardous Polymerization: <b>Will not occur.</b>
10.4	Conditions to Avoid: <b>Use or storage near open flames, sparks, high heat (&gt;100 °F) or other heat sources, and proximity to incompatible substances and heavily trafficked areas.</b>
10.5	Incompatible Substances: <b>Strong oxidizers.</b>



# SAFETY DATA SHEET

Page 4 of 6  
MSDS-E-D100S-2

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## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: <b>This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.</b>
11.2	Acute Toxicity: <b>See section 2.5</b>
11.3	Chronic Toxicity: <b>See section 2.6</b>
11.4	Suspected Carcinogen: <b>NE</b>
11.5	Reproductive Toxicity: <b>This product is not reported to produce reproductive toxicity in humans.</b>
	Mutagenicity: <b>This product is not reported to produce mutagenic effects in humans.</b>
	Embryotoxicity: <b>This product is not reported to produce embryotoxic effects in humans.</b>
	Teratogenicity: <b>This product is not reported to produce teratogenic effects in humans.</b>
	Reproductive Toxicity: <b>This product is not reported to produce reproductive effects in humans.</b>
11.6	Irritancy of Product: <b>See Section 2.3</b>
11.7	Biological Exposure Indices: <b>NE</b>
11.8	Physician Recommendations: <b>Treat symptomatically.</b>

## 12. ECOLOGICAL INFORMATION




12.1	Environmental Stability: <b>This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.</b>
12.2	Effects on Plants & Animals: <b>There is no specific data available for this product.</b>
12.3	Effects on Aquatic Life: <b>Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.</b>

## 13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal: <b>Dispose of in accordance with federal, state or local regulations.</b>
13.2	Special Considerations: <b>EPA Waste Code: D001 (characteristic – ignitability)</b>

## 14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND): <b>CONSUMER COMMODITY, ORM-D (until 12/31/2020) UN1950, AEROSOLS, 2.1, LTD QTY (IP VOL ≤ 1.0 L)</b>	  
14.2	IATA (AIR): <b>CONSUMER COMMODITY, 9, ID8000 (≤ 500 ml) UN1950, AEROSOLS, 2.1 (&gt; 500 ml)</b>	
14.3	IMDG (OCN): <b>UN1950, AEROSOLS, 2.1, LTD QTY (IP VOL ≤ 1.0 L)</b>	
14.4	TDGR (Canadian GND): <b>MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)</b>	
14.5	ADR/RID (EU): <b>UN1950, AEROSOLS, 2.1, LTD QTY (IP VOL ≤ 1.0 L)</b>	
14.6	SCT (Mexico): <b>UN1950, AEROSOLS, 2.1, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)</b>	
14.7	ADGR (Australia): <b>UN1950, AEROSOLS, 2.1, LTD QTY (IP VOL ≤ 1.0 L)</b>	



# SAFETY DATA SHEET

Page 5 of 6  
MSDS-E-D100S-2

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## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: <b>NA</b>	
15.2	SARA Threshold Planning Quantity: <b>NA</b>	
15.3	TSCA Inventory Status: <b>All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.</b>	
15.4	CERCLA Reportable Quantity (RQ): <b>NA</b>	
15.5	Other Federal Requirements: <b>NA</b>	
15.6	Other Canadian Regulations <b>This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.</b>	
15.7	State Regulatory Information: <b>The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.</b>	
15.8	67/548/EEC (European Union) Requirements: <b>The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: <u>Difluoroethane</u>: Flammable, Harmful (F, Xn). <u>Risk Phrases</u> (R): 10-65 – Flammable. Harmful: may cause lung damage if swallowed. <u>Safety Phrases</u> (S): 2-23-24-62 – Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting; seek medical advice immediately and show this MSDS or the container label. <b>WARNING!</b> Flammable aerosol. Colorless, volatile liquid with ethereal and faint sweetish odor. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. <u>Hazard Statements</u> (H): H223 – Flammable aerosol. <u>Precautionary Statements</u> (P): P210 – Keep away from heat/sparks/open flames/hot surfaces. P211 – Do not spray on an open flame or other ignition source. P251 – Pressurized container. Do not pierce or burn, even after use. P280 – Wear protective gloves and eyewear. P302 + P352 – IF ON SKIN – Wash with plenty of soap and water. P312 – Call a Poison Control Center or doctor/physician if you feel unwell. P333 + P313 – If skin irritation or rash occurs, get medical advise/attention. P321 – Refer to section 4 of this Safety Data Sheet (First Aid). P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P501 – Dispose of contents/container through licensed treatment, storage or disposal facility.</b>	

## 16. OTHER INFORMATION

16.1	Other Information: <b>NA</b>	
16.2	Terms & Definitions: <b>See last page of this Safety Data Sheet.</b>	
16.3	Disclaimer: <b>This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's &amp; CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.</b>	
16.4	Prepared for: <b>CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax <a href="http://www.caig.com/">http://www.caig.com/</a></b>	
16.5	Prepared by: <b>ShipMate, Inc. P.O. Box 787 780 Buckaroo Trail Suite D Sisters, OR 97759 Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 <a href="http://www.shipmate.com">http://www.shipmate.com</a></b>	

## DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

### GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
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### EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

### FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

<b>HEALTH</b>
<b>FLAMMABILITY</b>
<b>PHYSICAL HAZARDS</b>
<b>PERSONAL PROTECTION</b>

### PERSONAL PROTECTION RATINGS:

<b>A</b>	<b>G</b>
<b>B</b>	<b>H</b>
<b>C</b>	<b>I</b>
<b>D</b>	<b>J</b>
<b>E</b>	<b>K</b>
<b>F</b>	<b>X</b> Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
Boots	Synthetic Apron	Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

### OTHER STANDARD ABBREVIATIONS:

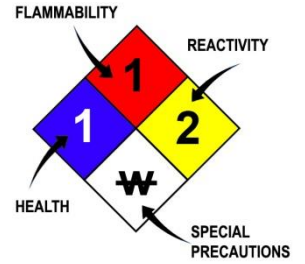
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:	
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

### HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>01</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>01</sub> , LD <sub>01</sub> , & LD <sub>01</sub> or TC, TC <sub>01</sub> , LC <sub>01</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	Coefficient of Oil/Water Distribution

### REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

A	B	C	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

### EC (67/548/EEC) INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

### CLP/GHS (1272/2008/EC) PICTOGRAMS:

GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment