### SAFETY DATA SHEET



### **Di-n-Butyl Sulfide**

Version 1.6

Revision Date 2021-08-12

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

### 1.1

### **Product information**

Product Name	:	Di-n-Butyl Sulfide
Material	:	1120828, 1024580, 1024581, 1024582, 1024729, 1024583,
		1036566, 1024584

### 1.3

### Details of the supplier of the safety data sheet

	Company :	Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
	Local :	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
		SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
1.4		
	Emergency telephone:	
	Health: 866.442.9628 (North America	
	1.832.813.4984 (Internationa	,
	Transport: CHEMTREC 800.424.9300 o	r 703.527.3887(int'l)
		196 1122) China: 0522 9299 0000

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department E-mail address	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> </ul>
SDS Number:100000068610	1/14

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Website

: www.CPChem.com

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### **SECTION 2: Hazards identification**

2.1

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute toxicity, Category 3

Skin irritation, Category 2

Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H331: Toxic if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

#### 2.2

Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H315 H319 H331 H336	Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness.
Precautionary Statements	:	Prevention:	Aveid has athing
		P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
		P264	Wash skin thoroughly after handling.
		P280	Wear protective gloves/ eye protection/ fa protection.
		Response:	
		P304 + P340 + P3	III IF INHALED: Remove person to fres air and keep comfortable for breathing. Ca a POISON CENTER/ doctor.
		P337 + P313	If eye irritation persists: Get medical advic attention.
		Storage:	
		P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Hazardous ingredients which • 544-40-1 n-B		ist be listed on the l Sulfide	

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### **SECTION 3: Composition/information on ingredients**

### 3.1 - 3.2

Substance of	or Mixture
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Synonyms	: Dinormal Butyl Sulfide
	normal-Butyl Sulfide
	5-Thianonane
	DNBS
	n-Butyl Sulfide
	1,1-Thiobisbutane

Molecular formula : C8H18S

### Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
n-Butyl Sulfide	544-40-1 208-870-5	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336	95 - 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

May contain Di-sec-butyl sulfide up to 5 wt%.

### **SECTION 4: First aid measures**

#### 4.1

Description of first-aid m	easu	res
General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
lf inhaled	:	Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
SECTION 5: Firefighting mean	sures	
Flash point	:	65,56°C (150,01°F) Method: ASTM D 93
Autoignition temperature	:	216°C (421°F)
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5.1	Extinguishing media		
	Suitable extinguishing	:	Carbon dioxide (CO2).
	media		
	Unsuitable extinguishing media	:	High volume water jet.
5.2	Special hazards arising fro Specific hazards during fire fighting		he substance or mixture Do not allow run-off from fire fighting to enter drains or water courses.
5.3	A duine fea finafiah tena		
	Advice for firefighters Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
	Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
	Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
	Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.
SEC	CTION 6: Accidental release	me	asures
6.1	Personal precautions, prot	ecti	ve equipment and emergency procedures
	Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
6.2	Environmental precautions	5	
	Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3			
	<b>Methods and materials for</b> Methods for cleaning up	con :	Atainment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.3 6.4		:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,
	Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4	Methods for cleaning up Reference to other sections	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,

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		considerations see section 13.
SEC	CTION 7: Handling and storage	
7.1	Precautions for safe handling Handling	
	Advice on safe handling :	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
	Advice on protection : against fire and explosion	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
7.2	Conditions for safe storage, in	ncluding any incompatibilities
	Storage	
	Requirements for storage : areas and containers	Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Prevent unauthorized access. No smoking. Keep in a well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
SEC	CTION 8: Exposure controls/per	sonal protection
JEC	strone of Exposure controls/per	
	Ingredients with workplace co	ntrol parameters

Podstata	Hodnota	Kontrolné parametre	Poznámka
SK OEL	NPEL priemerný	0,5 ppm, 1,9 mg/m3	
SK OEL	NPEL krátkodobý	1 ppm, 3,8 mg/m3	
Osnova	Vrednost	Parametri nadzora	Pripomba
SI OEL	MV	0,5 ppm, 1,9 mg/m3	
SI OEL	KTV	1 ppm, 3,8 mg/m3	
Bases	Valor	Parâmetros de controlo	Nota
PT OEL	VLE-MP	0,5 ppm,	
	·		
Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
PL NDS	NDS	1 mg/m3	
PL NDS	NDSch	2 mg/m3	
	SK OEL SK OEL SK OEL SI OEL SI OEL Bases PT OEL Podstawa PL NDS	SK OEL     NPEL priemerný       SK OEL     NPEL krátkodobý       Osnova     Vrednost       SI OEL     MV       SI OEL     KTV       Bases     Valor       PT OEL     VLE-MP       Podstawa     Wartość       PL NDS     NDS	SK OEL     NPEL priemerný     0,5 ppm, 1,9 mg/m3       SK OEL     NPEL krátkodobý     1 ppm, 3,8 mg/m3       Osnova     Vrednost     Parametri nadzora       SI OEL     MV     0,5 ppm, 1,9 mg/m3       SI OEL     MV     0,5 ppm, 1,9 mg/m3       SI OEL     KTV     1 ppm, 3,8 mg/m3       Bases     Valor     Parâmetros de controlo       PT OEL     VLE-MP     0,5 ppm,       Podstawa     Wartość     Parametry dotyczące kontroli       PL NDS     NDS     1 mg/m3

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10				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
n-Butyl Mercaptan	FOR-2011-12-06- 1358	GV	0,5 ppm, 1,5 mg/m3	
IK				1
Съставки	Основа	Стойност	Параметри на	Бележка
			контрол	
n-Butyl Mercaptan	MK OEL	MV	0,5 ppm, 1,9 mg/m3	
S			-	-
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
n-Butyl Mercaptan	IS OEL	TWA	0,5 ppm, 1,5 mg/m3	
E		<u>.</u>	-	-
Components	Basis	Value	Control parameters	Note
n-Butyl Mercaptan	IE OEL	OELV - 8 hrs (TWA)	0,5 ppm, 1,8 mg/m3	
IR				
Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
n-Butyl Mercaptan	HR OEL	GVI	0,5 ppm, 1,5 mg/m3	IR-D,
IR-D iritacija dišnih orgar	la			
R	<b>-</b>			
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
n-Butyl Mercaptan	GR OEL	TWA	0,5 ppm, 1,8 mg/m3	1
R				
Composants	Base	Valeur	Paramètres de	Note
			contrôle	Valeurs limites
n-Butyl Mercaptan	FR VLE	VME	0,5 ppm, 1,5 mg/m3	indicatives,
Valeurs limites Valeurs limites indic indicatives	catives			
1				
Aineosat	Peruste	Arvo	Valvontaa koskevat	Huomautus
			muuttujat	
n-Butyl Mercaptan	FLOEL	HTP-arvot 8h	0,5 ppm, 1,9 mg/m3	
n-Butyl Mercaptan	FI OEL FI OEL	HTP-arvot 8h HTP-arvot 15 min	0,5 ppm, 1,9 mg/m3 1,5 ppm, 5,6 mg/m3	
:S		HTP-arvot 15 min	1,5 ppm, 5,6 mg/m3	
S Componentes	FI OEL Base	HTP-arvot 15 min	1,5 ppm, 5,6 mg/m3 Parámetros de control	Nota
S Componentes	FIOEL	HTP-arvot 15 min	1,5 ppm, 5,6 mg/m3	Nota
Componentes n-Butyl Mercaptan DK	FI OEL Base	HTP-arvot 15 min	1,5 ppm, 5,6 mg/m3 Parámetros de control	Nota
ES Componentes n-Butyl Mercaptan OK Komponenter	FI OEL Base ES VLA Basis	HTP-arvot 15 min Valor VLA-ED Værdi	1,5 ppm, 5,6 mg/m3 Parámetros de control 0,5 ppm, 1,9 mg/m3 Kontrolparametre	Nota Note
S Componentes n-Butyl Mercaptan	FI OEL Base ES VLA	HTP-arvot 15 min Valor VLA-ED	1,5 ppm, 5,6 mg/m3 Parámetros de control 0,5 ppm, 1,9 mg/m3	
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan	FI OEL Base ES VLA Basis	HTP-arvot 15 min Valor VLA-ED Værdi	1,5 ppm, 5,6 mg/m3 Parámetros de control 0,5 ppm, 1,9 mg/m3 Kontrolparametre	
S Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan	FI OEL Base ES VLA Basis	HTP-arvot 15 min Valor VLA-ED Værdi	1,5 ppm, 5,6 mg/m3 Parámetros de control 0,5 ppm, 1,9 mg/m3 Kontrolparametre	
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe	FI OEL Base ES VLA Basis DK OEL Grundlage	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert	1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter	Note Bemerkung
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3	Note Bemerkung Y,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan E Inhaltsstoffe n-Butyl Mercaptan	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3	Note Bemerkung Y,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3	Note Bemerkung Y,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW altung des Arbeitsplatzgrei	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische	Note Bemerkung Y, n Grenzwertes (BG
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan E Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v Složky	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha werden	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3	Note Bemerkung Y,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v Složky	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha werden Základ	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW altung des Arbeitsplatzgrei	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry	Note Bemerkung Y, n Grenzwertes (BG
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v CZ Složky n-Butyl Mercaptan	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha werden Základ CZ OEL	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW Itung des Arbeitsplatzgren Hodnota PEL	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3	Note Bemerkung Y, n Grenzwertes (BG
S Componentes n-Butyl Mercaptan X Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v Složky n-Butyl Mercaptan	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha werden Základ CZ OEL CZ OEL	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW Itung des Arbeitsplatzgren Hodnota PEL	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3	Note Bemerkung Y, n Grenzwertes (BG
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan PE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v Složky n-Butyl Mercaptan	FI OEL Base ES VLA Basis DK OEL Grundlage DE TRGS 900 htschädigung braucht bei Einha werden Základ CZ OEL	HTP-arvot 15 min Valor VLA-ED Værdi GV Wert AGW altung des Arbeitsplatzgrei Hodnota PEL NPK-P	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3	Note Bemerkung Y, n Grenzwertes (BG
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v CZ Složky n-Butyl Mercaptan CH	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         How the subschädigung braucht bei Einhawerden	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         Strong/m3	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc,
S Componentes n-Butyl Mercaptan X Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         L CZ OEL         CH SUVA         CH SUVA	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert         KZGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan DE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         How the subschädigung braucht bei Einhawerden	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         Itung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert         KZGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         3 mg/m3	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan PE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v Složky n-Butyl Mercaptan H Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSc Eine Schädigung de	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         L CZ OEL         CH SUVA         CH SUVA         Ch SUVA	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         Itung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert         KZGW	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         3 mg/m3	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc,
S Componentes n-Butyl Mercaptan NK Komponenter n-Butyl Mercaptan PE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSC Eine Schädigung der SE	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Heibesfrucht braucht bei Einhawer	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         KZGW         Ith         haltung des MAK-Wertes r	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         nicht befürchtet zu werden.	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc, NIOSH, SSc,
S Componentes n-Butyl Mercaptan K Komponenter n-Butyl Mercaptan PE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v Složky n-Butyl Mercaptan H Inhaltsstoffe n-Butyl Mercaptan SIOŽKY NIOSH National Institute for SSc Eine Schädigung der EE Bestanddelen	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Basis	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert         KZGW         Ith         haltung des MAK-Wertes r         Waarde	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         nicht befürchtet zu werden.         Controleparameters	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc,
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v CZ Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSC Eine Schädigung de Bestanddelen n-Butyl Mercaptan	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Heibesfrucht braucht bei Einhawer	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         KZGW         Ith         haltung des MAK-Wertes r	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         nicht befürchtet zu werden.	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc, NIOSH, SSc,
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v CZ Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSc Eine Schädigung de Bestanddelen n-Butyl Mercaptan	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         EL         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Basis         BE OEL	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         KZGW         Ith         haltung des MAK-Wertes r         Waarde         TGG 8 hr	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         nicht befürchtet zu werden.         Controleparameters         0,5 ppm, 1,8 mg/m3	Note         Bemerkung         Y,         n Grenzwertes (BG         Poznámka         Bemerkung         NIOSH, SSc,         NIOSH, SSc,         Opmerking
ES Componentes n-Butyl Mercaptan OK Komponenter n-Butyl Mercaptan OE Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruch nicht befürchtet zu v CZ Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSc Eine Schädigung de Bestanddelen	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Basis	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         MAK-Wert         KZGW         Ith         haltung des MAK-Wertes r         Waarde	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         hicht befürchtet zu werden.         Controleparameters         0,5 ppm, 1,8 mg/m3         Zu überwachende	Note Bemerkung Y, n Grenzwertes (BG Poznámka Bemerkung NIOSH, SSc, NIOSH, SSc,
S Componentes n-Butyl Mercaptan N K Komponenter n-Butyl Mercaptan P Inhaltsstoffe n-Butyl Mercaptan Y Ein Risiko der Fruct nicht befürchtet zu v Z Složky n-Butyl Mercaptan CH Inhaltsstoffe n-Butyl Mercaptan NIOSH National Institute for SSc Eine Schädigung de Bestanddelen n-Butyl Mercaptan	FI OEL         Base         ES VLA         Basis         DK OEL         Grundlage         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CZ OEL         Grundlage         EL         DE TRGS 900         htschädigung braucht bei Einhawerden         Základ         CZ OEL         CH SUVA         CH SUVA         CH SUVA         CH SUVA         Basis         BE OEL	HTP-arvot 15 min         Valor         VLA-ED         Værdi         GV         Wert         AGW         altung des Arbeitsplatzgren         Hodnota         PEL         NPK-P         Wert         KZGW         Ith         haltung des MAK-Wertes r         Waarde         TGG 8 hr	1,5 ppm, 5,6 mg/m3         1,5 ppm, 5,6 mg/m3         Parámetros de control         0,5 ppm, 1,9 mg/m3         Kontrolparametre         0,5 ppm, 1,5 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         nzwertes und des biologische         Kontrolní parametry         1,5 mg/m3         3 mg/m3         Zu überwachende         Parameter         0,5 ppm, 1,9 mg/m3         1 ppm, 3,8 mg/m3         nicht befürchtet zu werden.         Controleparameters         0,5 ppm, 1,8 mg/m3	Note         Bemerkung         Y,         n Grenzwertes (BG         Poznámka         Bemerkung         NIOSH, SSc,         NIOSH, SSc,         Opmerking

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	AT OEL	MAK-KZW	0,5 ppm, 1,9 mg/m3

### 8.2

#### **Exposure controls Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### Personal protective equipment

	Respiratory protection	:	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
	Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
	Eye protection	:	Eye wash bottle with pure water.
	Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Footwear protecting against chemicals.
	Hygiene measures	:	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
SEC	CTION 9: Physical and chemi	ical	properties
9.1	Information on basic physic	cal	and chemical properties
	Appearance		
	Form Physical state		: liquid : liquid
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Color Odor	: Clear : Repulsive	
Safety data		
Flash point	: 65,56°C (150,01°F) Method: ASTM D 93	
Lower explosion limit	: 0,8 %(V)	
Upper explosion limit	: 6,8 %(V)	
Oxidizing properties	: No	
Autoignition temperature	: 216°C (421°F)	
Molecular formula	: C8H18S	
Molecular weight	: 146,32 g/mol	
рН	: No data available	
Freezing point	: -75°C (-103°F)	
Boiling point/boiling range	: 180-191°C (356-376°F)	
Vapor pressure	: 0,10 PSI at 38°C (100°F)	
Relative density	: 0,84 at 15,6 °C (60,1 °F)	
Density	: 841,2 g/l at 16°C (60°F)	
Water solubility	: negligible	
Viscosity, dynamic	: 1,05 cP at 20°C (68°F)	
Relative vapor density	: 5,07 (Air = 1.0)	
Evaporation rate	: 1	
Percent volatile	: >99%	

# SECTION 10: Stability and reactivity

### 10.1

**Reactivity** : Stable under recommended storage conditions.

10.2

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Chemical stability	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> </ul>
10.3	
Possibility of hazardous rea	octions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
	Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
10.4 Conditions to avoid	: Heat, flames and sparks.
10.5 Materials to avoid 10.6	: Avoid oxidizing agents.
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
11.1 Information on toxicologica	leffects
Acute oral toxicity	
n-Butyl Sulfide	: LD50: 2.220 mg/kg Species: Rat
Acute inhalation toxicity	
n-Butyl Sulfide	: LC50: 3,7 mg/l Exposure time: 4 h Species: Mouse Test atmosphere: vapor
Acute dermal toxicity	
n-Butyl Sulfide	: LD50: > 5.000 mg/kg Species: Rabbit
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	Skin irritation	
	n-Butyl Sulfide	: Skin irritation
	<b>Eye irritation</b> n-Butyl Sulfide	: Eye irritation
	Sensitization	
	n-Butyl Sulfide	: Not a skin sensitizer.
	Di-n-Butyl Sulfide Aspiration toxicity	: May be harmful if swallowed and enters airways.
	Di-n-Butyl Sulfide Further information	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
SEC	TION 12: Ecological information	on
12.1	Toxicity	
	Toxicity to fish	
	n-Butyl Sulfide	: 3,5 mg/l Exposure time: 96 h Species: Fish Method: QSAR modeled data
	Toxicity to daphnia and other	aquatic invertebrates
	n-Butyl Sulfide	: 1,71 mg/l Exposure time: 48 h Species: Daphnia Method: QSAR modeled data
12.2	Persistence and degradability	
	Biodegradability	
	n-Butyl Sulfide	: This material is not expected to be readily biodegradable.
12.3	Bioaccumulative potential	
	Bioaccumulation	
	n-Butyl Sulfide	: This material is not expected to bioaccumulate.
12.4	Mobility in soil	
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Mobility	
n-Butyl Sulfide	: No data available
12.5 Results of PBT and vPvB as Results of PBT assessment	<ul> <li>sessment</li> <li>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</li> </ul>
12.6 Other adverse effects Additional ecological information Ecotoxicology Assessment	: Toxic to aquatic life with long lasting effects.
Short-term (acute) aquatic haz n-Butyl Sulfide	ard : Toxic to aquatic life.
Long-term (chronic) aquatic ha n-Butyl Sulfide	zard : Toxic to aquatic life with long lasting effects.
SECTION 13: Disposal considera	tions
<b>13.1</b> Waste treatment methods The information in this SDS pe	rtains only to the product as shipped.
Use material for its intended pu may meet the criteria of a haza other State and local regulation regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is the, federal law requires disposal at a licensed hazardous waste

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.	
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.	

### **SECTION 14: Transport information**

### 14.1 - 14.7

#### Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the

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bill of lading.

	PARTMENT OF TRANSPORTATION) QUID, N.O.S., (N-BUTYL SULFIDE, DI-SEC-BUTYL SULFIDE), III
UN3082, ENVIRONMENTAL	MARITIME DANGEROUS GOODS) LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL MARINE POLLUTANT, (N-BUTYL SULFIDE)
IATA (INTERNATIONAL AIR TI UN3334, AVIATION REGUL	RANSPORT ASSOCIATION) ATED LIQUID, N.O.S., (N-BUTYL SULFIDE), 9, III
	<b>EROUS GOODS BY ROAD (EUROPE))</b> .LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL
RID (REGULATIONS CONCER	NING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EURO	
SULFIDE), 9, III	Y HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL
OF DANGEROUS GOODS BY	NT CONCERNING THE INTERNATIONAL CARRIAGE INLAND WATERWAYS) ILY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL
Maritime transport in bulk acc	-
SECTION 15: Regulatory information	on
15.1 Safety, health and environmer National legislation	ntal regulations/legislation specific for the substance or mixture
	15/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the Council on the Registration, Evaluation, Authorisation and H)
Water contaminating class (Germany)	: WGK 2 water endangering
15.2	
Major Accident Hazard Legislation	: 96/82/EC Update: Toxic 2 Quantity 1: 50 t Quantity 2: 200 t
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	: ZEU_SEVES3 Update: ENVIRONMENTAL HAZARDS E2 Quantity 1: 200 t Quantity 2: 500 t
Notification status Europe REACH	: A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.
Switzerland CH INV United States of America (USA) TSCA Canada DSL	: On the inventory, or in compliance with the inventory
Other AIIC New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>Not in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).</li> </ul>
Philippines PICCS Taiwan TCSI China IECSC	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
TION 16: Other information	
NFPA Classification :	Health Hazard: 2 Fire Hazard: 2 Reactivity Hazard: 0
Further information	
Legacy SDS Number :	46810
Significant changes since the las previous versions.	st version are highlighted in the margin. This version replaces all
The information in this SDS pert	tains only to the product as shipped.
information and belief at the date	Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a , processing, storage, transportation, disposal and release and is

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not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ŀ	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

### Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

H336 May cause drowsiness or dizziness.