SECTION 1 - PRODUCT AND COMPAN PRODUCT NAME All wa	ter soluble cutting of	oils				SAE	NA
	al purpose lubricant		al working		Pro	duct Number	
Uses advised against:	No additiona		-	ble			
Company Identification							
United Grease and Lubricants Co LLC,	PO Box 2685, Ajma	n, United	d Arab Emira	tes. Www.unite	dgrease.com		
Transportation Emergency Response				Health Emerge		Product Info	rmation
(971)(54) 2171575				(971)(54)2171	575	(971)(54)217	71575
SECTION 2 HAZARDS IDENTIFICATION	1						
Classification		Cl	assification u	under EC 1272/2	008 (EU GHS CLF	?)	
Skin sensitization, cat 1				H 317			
Hazardous to aquatic environment - C	hronic hazard - Cat	2		H 411			
Other hazards (not relevant for classif	ication)						
Full text of H and EUH statements: See	e section 16						
Adverse physicochmeical, human heal	th and environmen	tal effect	S				
Prolonged and repeated skin contact r				natitis. May caus	e sensitization b	y skin	
contact. Toxic to aquatic life with long		-					
toxicological properties, see section 1	-				-		
EC Index No N/A	EC No	N/A	CAS No	N/A	REACH Regis	tration No	N/A
SECTION 2 Label Elements							
CLP Signal word	Warning						
Labelling according to Regulation (EC)	No. 1272/2008 (CLF)					
Hazard pictogram	\wedge	A.					
	$\langle ! \rangle$	(¥2)					
	V						
	GHS07	GH	S09				
Contains	1-2 benzoiso	thiazol-3	3(2H)-one				
Hazard statements (CLP)	H 317 - May			n reaction			
ζ, γ			-	long lasting effe	cts		
Precautionary statements (CLP)	H 412 - Harmful to aquatic life with long lasting effects P261-Avoid breathing mist, spray, vapours, fume						
, , , ,	P 273 - Avoid						
				ve proteciton			
		•	0,		container tightl	v closed	
					wash before reu		
	P 391 - Colle			0			
				ye proteciton			
					ding to national	or local regul	ations
Other hazards (not relevant for classi							
Health	This product	is comb	ustible, but i	not classified as	Flammable. The	creation of	
flamm	able vapour mixture	es takes	place at tem	peratures which	are higher than		
	normal amb	ient leve	ls. Any subst	ance, in case of	accidents		
	involving pre	essurised	l circults and	the like, may be	accidentally inj	ected	
	under the sk	in, even	without exte	ernal damage. Ir	such a case the	victim	
	should be bo	ought to	an hospital a	as soon as possil	ole, to get specia	lized	
		-		or symptoms to			
	medical trea	tment. D	o not mart i				
This substance/mixuture does not me				, Annex XIII			
	et the PBT criteria o	f REACH	regulation,				
This substance/mixuture does not me This substance/mixture does not mee Component	et the PBT criteria o	f REACH	regulation,				

Revision No1Revision Date25-Jul-23

Product

	MATERIAL SAFETY DATA SHEET
	Component
Alcohols, C16-C18 and C18-unsaid, ethoxylated (68920-66-1)	This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-2 benzoisothiazol-3(2H)-one (2634-33-5)	This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
	Component
Alcohols, C16-C18 and C18-unsaid, ethoxylated (68920-66-1)	The substanceis not included in the list established in accordance with article 59(1) of REACH for having endocrine disrupting properties or is identified as having endocrine disrupting properties in accordance the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulat EU 2018/605
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	The substanceis not included in the list established in accordance with article 59(1) of REACH for having endocrine disrupting properties or is identified as having endocrine disrupting properties in accordance the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulat EU 2018/605
1-2 benzoisothiazol-3(2H)-one (2634-33-5)	The substanceis not included in the list established in accordance with article 59(1) of REACH for having endocrine disrupting properties or is identified as having endocrine disrupting properties in accordance the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulat EU 2018/605
ECTION 3 - COMPOSITION/INFORMATION ON ING	EDIENTS (SUBSTANCES)

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS (SUBSTANCES) Not applicable

3.2 Mixtures

Mixture of hydrocarbons Additives Solvents

Hazardous ingredients and/or with relevant occupational expsoure limits

Name				Product Identifier	%	Classification according to Regulation 1272/2008
				CAS 68920-66-1	>2,5 to 5	Skin Irrit 2 H 315
Alcohols, C16-C18 and C18-unsaid, etho		ethoxylated (68920-66-	-1)	EC 500-236-9		Aquatic Chronic 2, H 411
/ ((0)1013) (210	(Solven		-/	ECINo. NA		
	, , , , , , , , , , , , , , , , , , ,	,		REACH No. 01-2119489407-26		
				CAS 941-188-2	>2,5 to 5	Aquatic Chronic 1, H 410
				EC NA		
Alcohols, C14-15 brancehd (Solvent)			ECINo. NA			
			REACH No. ND			
Revision No	1				_	
Revision Date	25-Jul-23	Product	All wa	ter soluble cutting oils	Page	2 of 16

	MATERIAL SA	AFETY DATA SHEET		
		CAS 3811-73-2		
			>0.01-0.25	Acute tox 4 (oral) H 302
		EC 220-296-5		(ATE=500 mg/kg BW)
		ECINo. NA		Acute tox 4 (dermall) H 312
Duriding 2 th	ial 1 avida cadium calt (2011 72 2) (Additiva)			(ATE=1100 mg/kg BW)
Pynaine-2-th	iol 1-oxide, sodium salt (3811-73-2) (Additive)	REACH No. 01-2119493385-28		Acute tox 4 (inhal) H 332
				Skin Irrit 2 H 315
				Eye irrit 2 H 319
				Aquatic acute 1, H 400
		CAS 2634-33-5		Aquatic chronic 1 H 410
			>0.05-0.25	Acute tox 4 (oral) H 302
		EC 220-120-9		(ATE=597 mg/kg BW)
1-2 benzo	isothiazol-3(2H)-one (2634-33-5) (additive)	ECINo. 613-088-00-6		Skin Irrit 2 H 315
				Eye Dam 1 H 318
		REACH No. 01-2120761540-60		Aquatic acute 1, H 400
		analyzetian Lingth		Skin sens 1, H 317
Namo	Specific Con	centration Limits	Crecifi	a concontration limite
Name		CAS 2634-33-5		c concentration limits
			(U.U5 <c< td=""><td><100) skin sens 1, H 317</td></c<>	<100) skin sens 1, H 317
		EC 220-120-9		
1-2 benzo	isothiazol-3(2H)-one (2634-33-5) (additive)	ECINo. 613-088-00-6		
		REACH No. 01-2120761540-60		
SECTION 4 FIRST		viation to a boostital to varify th		
General	In case of spotaneous vomitting, transport the		le	
in halation	possibility that the product has been aspired in	-		
inhalation	In case of disturbances owing to inhalation of v exposure, keep at rest; if necessary, seek medi			
If brea	thing is difficult, give oxygen if possible or assisted			
Skin	Take off contaminated clothing and shoes. Was		-	
Contact	If inflammation or irritation persists, seek medi			
	hot product, cool affected part with plenty of c	old water, and cover with gua	ze or clean	
	cloth. Call a doctor to bring to a hospital. Do no		ss directed by	
	the doctor. Body hypothermia must be avoided			
Eye contact	Rinse eyes thoroughly for at least 15 minutes. I			seek
	medical advice. In case of contact with hot pro			
	water, and cover with guaze or clean cloth. Cal			
	or ointments, unless directed by doctor. Remov			50
Ingestion	Do not use induce vomitting to avoid aspiration			
	rinse mouth with water without swallowing. Ke			g
	to a hospital. If the casualty is inconsciou,s plac			
	spontaneous vomitting, keep head low, to avoi		e lungs	
	Do not give anything by mouth to an unconscio	ous person		
	symptoms and effects, both acute and delayed	longod and reneated difference	tact may	rodonning
symptons/injurie		olonged and repeated skin con tation and dermatitis	Lact may cause	eredenning
Systems /Injurios			ambient tom	aeratures
Systems/Injuries		ne under normal conditions at tation may arise in case of rep		
Systems/ injuries	Prolonged or repeated contact may cause skin			
			ISILIZALIUIT D SK	
Systems /Injurios	Contact with hot product may casue thermal be after eye contact Cor	urns ntact with hot product or vapo	ure may cause	hurns
	es after ingestion		uis may cause	
symptoms/mjuri	-		confort and	
	Accidental indection of small duantitios of the			
Revision No	Accidental ingestion of small quantities of the p	product may cause nausea, dis	comfort and	
Revision No Revision Date	1	water soluble cutting oils	Page	3 of 16

	MATERIAL SAF	ETY DATA SHEET
-	disturbances.	
Symptoms/injuries upon ir		No information available
Chronic symptoms	None known	
	te medical attention and special treatmen	
	casualy has an altered state of conscrious	ness or if symptons do not resolve.
SECTION 5 - FIRE FIGHTING		
EXTINGUISHING MEDIA		O2, water spray, other extinsguhing gases (as per regulation)
UNSUITABLE		should be used by trained personnel only. er jets. They could cause splattering, and spread the fire
UNJUITABLE	-	m and water on the same surface is to be avoided as
	water destroys the foan	
Special hazards arising fror	n the substance or mixture	
Fire Hazard		lassified as flammable. The creation of
		ce at temperatures which are higher than normal
	ambient levels	
	Heat may build pressure in tank and o	containers, rupturing closed vessels, spreading fire and
	-	es. Vapours are heavier than air, spread along the floors
	and form explosive mixtures with air	
Explosion Hazard		ressurised circuits, the sprays may form mists. Take
	t that in this case the lower explosiion lim	nit for mists is about 45g/m3 of air
Hazardous decomposition		
		gerous carbon monoxide, carbon di oxide
	-	oxygenated compounts (aldehydes etc.; POx
Advice for firstinktore	XNoX, CaOx	
Advice for firefighters	Chut off course of and	ict if possible. If possible, move containers and drums
Firefighting instructions		uct, if possible. If possible, move containers and drums
		Ict which is not burning should be covered water sprays to cool containers and surfaces exposed
		cannot be controlled, evacuate area
Special protective equipme		
special protective equipme	_	on equipment (see chapter 8).
		g apparatus with full face piece operated in positive
	pressure mode. EV 443,	
Other information	•	do not discharge residual product, waste materials and run
		ect separately and use a proper treatment
SECTION 6 - ACCIDENTAL R		
Personal precautions, prot	ective equipment and emergency proced	ures
•••		he source, if safe to do so. Eliminate all ignition sources
		o (e.g. electricity, sparks, fires, flares). Avoid contact
	with released	
For Non emergency Person	inel	
Protective Equipment	See section 8	
Emergency Procedures	Keep non-involved pers	onnel away from the area of spillage. Alert emergency
		ept in case of small spillages, the feasibility of any actions
	should always be assess	ed and advised, if possible, by a trained, competent
	person in char	ge of managing the emergency.
For Emergency Responders	\$	
Protective equipment	Standard EN 4	69.
	Small spillages	: normal antistatic working clothes are usually adequate.
		full body suit of chemically resistant and antistatic mtl
	necessary hea	t resistant and insulated. Work gloves providing adequate
	chemical esist	ance, specifically to aromatic hydrocarbons. Gloves made of
Revision No	1	
Revision Date 25-Jul	-23 Product All w	ater soluble cutting oils Page 4 of 16

	MATERIAL SAFETY DATA SHEET
	PVA are not water-resistant, and are not suitable for emergency use.
	If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non skid safety shoes or
	boots, chemical resistant, if necessary heat resistant and insulated. Work
	helmet, antistatic non skid safety shoes or boots.
	Respiratory protection: A half or full-face respirator with filter
	for organic vapours (and when applicable for H2S). A Self Contained Breathing
	Apparatus (SCBA) can be used according to the extent of spill and predictable
	amount of exposure. If the situation cannot be completely assessed, or if an
	oxygen deficiency is possible, only SCBA's should be used.
Emergency Procedures	Notify local authorities according to relevant regulations.
Environmental precautions	
	Do not let the product flow into sewers or water courses, or in any way
	contaminate the environment. In case of contamination of environment
	compartments (soil, subsoil, surface or underground waters), remove
	contaminated soil when possible, and in any case treat all involved
	compartments in accordance with local regulations. The site should have a spill
plan to ensure that adequate s	safeguards are in place to minimize the impact of episodic releases.
Methods and material for cont	tainment and cleaning up
For containment	Contain spilled liquid with sand, earth or other suitable absorbents
	Recover free liquid and waste materials in suitable waterproof
	and oil resistant containers. Clean contaminated area. Dispose of
	according to local regulations. Water: Confine the spillage. Remove from
	surface by skimming or suitable floating absorbents. Collect recovered
	product and other waste materials in suitable waterproof, oil resistant
	containers. Recover or dispose of according to local regulations.
Methods for cleaning up	Transfer recovered product and other materials to suitable tanks or
5.1	containers and store/dispose according to relevant regulations
Other Information	Recommended measures
	are based on the most likely spillage scenarios for this material; however, local
	conditions (wind, air temperature, wave/current direction and speed)
	may significantly influence the choice of appropriate actions.
	Local regulations may also prescribe or limit actions to be taken.
Reference to other sections	
	a sastian 9 and 12
for further information, refer to SECTION 7 HANDLING AND ST	
Precautions for safe handling	This protocial is a probability in the sector will part in the property. Dury take address at a
	This material is combustible, but will not ignite readily. Provide adequate
	ventilation. Use adequate PPE as needed.
	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of
6	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling,
6	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling, discharging or handling operations. Keep away from heat/sparks/open
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	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling, discharging or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well ventilated area. During transfoer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build up of electric charges Provide good ventilation n process area to prevent formation of vapour Keep away from sources of ignition No smoling. Sotre in dry, well ventilated area. Do not breathe fune/mist/vapours
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, , , , , , , , , , , , , , , , , , ,	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling, discharging or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well ventilated area. During transfoer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build up of electric charges Provide good ventilation n process area to prevent formation of vapour Keep away from sources of ignition No smoling. Sotre in dry, well ventilated area. Do not breathe fune/mist/vapours Because of the extremely slippery nature of this material, more care than usual must be exercised in material handling practices tokeep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid releases to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or
	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling, discharging or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well ventilated area. During transfoer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build up of electric charges Provide good ventilation n process area to prevent formation of vapour Keep away from sources of ignition No smoling. Sotre in dry, well ventilated area. Do not breathe fune/mist/vapours Because of the extremely slippery nature of this material, more care than usual must be exercised in material handling practices tokeep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid releases to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and
Revision No 1 Revision Date 25-Jul-23	ventilation. Use adequate PPE as needed. Ensure that all releveant regulations regardinghandling and storage of flammable products are followed. DO not use compressed air for filling, discharging or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well ventilated area. During transfoer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build up of electric charges Provide good ventilation n process area to prevent formation of vapour Keep away from sources of ignition No smoling. Sotre in dry, well ventilated area. Do not breathe fune/mist/vapours Because of the extremely slippery nature of this material, more care than usual must be exercised in material handling practices tokeep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid releases to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and

	MATERIAL SAFETY DATA SHEET			
	cleaned. Before entering storage tanks and commencing any operation			
	in a confined area (tunnels), carry out an adequate clean up, and check			
	the atmosphere for oxygen content and flammability			
Handling temperatures	0 to 45 deg C			
Hygeine Measures	Avoid contact with skin. DO not breahe fume/mist/vapours. DO not ingest			
	Do not smoke. DO not eat and do not drink during use. Donot clean hands			
	with dirty or oil soaked rags. Donot reuse clothes. If they are still			
	contaminated, keep away from food and beverages			
	ncluding any incompatibilities			
Stoage conditions	Store in dry, well ventilated area. Keep away from open flames, hot			
	surfaces and sources of ignition. Do not smoke.			
	If product is supplied in containers, keep only in the original container			
	or in a suitable container for this kind of product. Keep containers			
Incompatible Products	tightly closed and properly labelled Strong acids, strong oxidants. Strong bases/alkalies			
Storage temperatures	0 to 45 deg C			
Storage area	Storage area layout, tank design, equipment and operating procedures must			
	comply with the local legislation. Storage installations should be designed			
	with adequate bunds so as to prevent ground and water pollution in case of			
	leaks or spills. Cleaning, inspection and maintenance of internal structure of			
	storage tanks must be done only by properly equipped and qualified personnel			
	as defined by national, local or company regulations.			
Package and Containers	If the product is supplied in containers, keep containers tightly closed and			
	properly labelled. Keep only in the original container or in suitable			
	container for this kind of product. Empty containers may contain			
	combustible residues. Do not weld, solder, drill, cut or incinerate empty			
	containers, unless they have been properly cleaned			
Packaging Materials	For containers, or container linings use materials specifically approved			
for use with this product. Recommended materials for containers or				
container linings use mild steel, stainless stee,. Some synthetic materials may be unsuitable for containers or containing linings depending upon the material specifications and intended use				
				Specific End Uses
•	ROLS/PERSONAL PROTECTION			
	ure and biological limit values (US NIOSH, ACGIH AND OSHA)			
No additional information av				
DNEL/DMEL/PNEC (additiona	l information)			
All water soluble cutting oils	Not applicable			
	nsaid, ethoxylated (68920-66-1) (Solvent)			
DNEL/DMEL (workers)				
Long term systemic effct, inha				
Long term systemic effect, de				
Long term local effects Inhala				
DNEL/DMEL (General Populat				
Long term systemic effect, ora Long term systemic effct, inha				
Long term systemic effect, de				
PNEC Water	TZ20 IIB/ 16 01 2004 Weighty day			
PNEC aqua (freshwater)	0.0072 mg/L			
PNEC aqua (marine water)	0.0007 mg/L			
PNEC aqua (intermittent, fres				
PNEC Sediment				
PNEC sediment (freshwater)	22.79 mg/kg dwt			
PNEC sediment (freshwater)	22.79 mg/kg dwt 1			

	MATERIAL SAFETY DATA SHEET
PNEC sediment (marine water)	2.28 mg/kg dwt
PNEC Soil	1 mg/m3 dwt
PNEC STP	10 g/l
1-2 benzoisothiazol-3(2H)-one (2634-33-5) (additive)
DNEL/DMEL (workers)	
Long term systemic effct, inhalation	6.91 mg/m3
Long term systemic effect, dermal	0.966 mg/kg of body weight/ day
Long term local effects Inhalation	
DNEL/DMEL (General Population)	
Long term systemic effect, oral	
Long term systemic effct, inhalation	1.2 mg/m3
Long term systemic effect, dermal	0.345 mg/kg of body weight/ day
PNEC Water	
PNEC aqua (freshwater)	4.03 μg/L
PNEC aqua (marine water)	0.403 µg/L
PNEC aqua (intermittent, fresh water)	1.1 μg/L
PNEC aqua (intermittent, marine water)	110 µg/L
PNEC Sediment	
PNEC sediment (freshwater)	49.9 μg/kg dwt
PNEC sediment (marine water)	4.99 µg/kg dwt
PNEC Soil	3 mg/m3 dwt
PNEC STP	1.03 g/l
Pyridine-2-thiol 1-oxide, sodium salt (3811	
DNEL/DMEL/PNEC (additional information	
Additional information	Note: The derived no effect level (CNEL) is an estimated safe level of
	exposure that is derived from toxicity data in accord with specific guidance
	within the European REACH regulations. The DNEL may differ from an
	Occupational Exposure Limit (OEL) for the same chemical. OELs may be
	recommended by an individual company, a governmental regulatory
	body or an expert organization, such as the soceity committee for
	occupation exosure limit (SCOEL), or the Americal conference of governmental
	industrial hygeinits (ACGIH). Oems are considered to be safe expsoure levels
	for a typical worker in an occupational setting for a 8 hour work shift, 40
	hour work week, as a time weighted average (TWA) or a 15 minute short
	term expsoure limit (STEL). While also considered to be protective of
	health, OELs are derived by a process different from that of REACH
Control banding	No additional information available
EXDOSLIBE CONTROLS	

EXPOSURE CONTROLS

Appropriate Engineering Controls

Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean up and check the atmosphere for oxygen content, flamability and the presence of sulfur compounds See also section 16, Other information

PERSONAL PROTECTIVE EQUIPMENT (for industrial or professional use)

Face shield, Gloves, Protective clothing, safety glasses, safety shoes or boots, gas mask with filter for organic vapours (A) or organic vapours /H2S (A+B)

Personal Protective Equipment (Symbol(s):



1

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Product

	MATERIAL SAFETY DATA SHEET
Eye/Face Protection	Safety glass DIN EN 166
Skin/Body Protection	Long sleeved overalls. If necessary, refer to EN 340 and related standards
	for definition of characteristcs and performance according to the
	risk rating of the area. Wash contaminated clothing before use
	for protective gloves include:
Hand Protection	Protective gloves, adequate materials, nitrile (NBR) or PVC with a protection
	index >5 (permeation time > 240 min). Use gloves respecting all the
	conditions and within the limits set by the manufacturer. Replace gloves
	immeidately in case of cuts, holes or other signs of damages or degradation
	If necessary refer to the EM 374 staneards. Thickness of glove mtl >0,4 mm
	Personal hygiene is a key element for an effective hand care. Gloves must
	be worn only with clean hands. After wearing of gloves, hands must be
	carefully washed and dried
Eye protection	When there is a risk of contact with the eyes, use safety goggles or other
	means of protection(face shield). If necessary refer tonational standards
	or to the EN 166 standard
Respiratory	No respiratory protection is normally required with sufficient ventilation
Protection	Indepependtly from other substances action (technical modifications,
	operating procedures, and other means to limit the expsoure of workers)
	personal protection equipment can beused according to necesssity. Open
	or well ventialted spaces; if product is handled without adequate
	containkent; use full or half face masks with adequate filter for mists and
	organic vapours. (En 136/140/145). Closed or confined areas (ex tank
	interiors), the use of protection measures for airways (masks or self
	contained breathing apparatus) must be assessed according to the specific
	activity, as well as level and duration of predicted exposure (EN 136/140/145)
	Combination filter device (DIN EN 141). Combined gas/dust mask with
	filter type A Filter P (White)
Thermal Hazards	None in normal use conditions
Thermal hazard protection	If contact with hot product is possible, or anticipated, gloves should be heat
Environmental exposure controls	resistant and thermally insulated
-	e the product into the environment. Storagea reas/installations should be designed
-	bunds so as to prevent ground and water pollution in case of leaks or spills
	Julius so as to prevent ground and water pointion in case of reaks of spins

with adequate bunds so as to prevent ground and water pollution in case of leaks or spills Onsite wastewater treatment required. Prevent discharge of un dissolved substances to or recover from onside wastewater. DO not apply industrial slude to natural soils. Slude should be incinerated, contained or reclaimed

Consumer expsoure controls

	Not applicable		
SECTION 9 - PHY	SICAL AND CHEMI	CAL PROPERTIES	
Attention:	The data below	are typical values and de	o not constitute a specification
Color			Light, bright and clear
Physical State			Liquid
Odor			Characteristic
Odor Threshold			No data available
рН			8.4-9 (at 5%)
Vapor Pressure			No data available
Boiling Point			No data available
Solubility			Miscible with water
Pour Point deg C	D 97		-12 deg C D 97
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	MATERIAL SAFETY DATA SHEET
Boiling Point	>200 DEG c (cas 101316-72-7_
FlashPoint	>105 deg c (D 93)
Freezing point,deg C	≈ 0 deg C (cas 101316-72-7)
Density	0.9 - 0.91 kg/L @ 20°C (Typical)
Viscosity	52 cst at 40 deg C (D445)
Log Kow	Not applicable for mixutures
Evaporation Rate	No data available
Decomposition Temperature	No data available
Octanol/Water Partition Coefficient	No data available
VOC Content	No data available
Flammability	No data available
Explosive properties	None
Oxidising properties	None
Explosive limits	No data available
Lower explosion limit	No data available
Upper explostion limit	None
Autoignition temperature	No data available
Log Kow	Not applicable for mixutures
Relative density	Not determined
Relative vapour density at 20 deg C	Not determined
Particle characteristics	Not determined
Other information	
Information with regard to physical haz	ard classes
Critical temperature	Not applicable to mixtures
Other safety characteristics	
Relative evaporation rate (butylacetate	=1) Negligible. No other data available
SECTION 10 - STABILITY AND REACTIVE	
Reactivity	This mixuture does not offer any further hazard, except what
	is reported in the following paragraphs
Chemical Stability	Stable prdouct according to its intrinsic properties
Incompatibility with Other Materials: S	
Possibility of Hazardous reactions	None (in normal conditions of storage and handling). Contact
	des, chromates etc) may cause a fire hazarad. A mixture with nitrates
	hlorates, perchlorates, liquid oxygen) may create an explosive mass
•	shock cannot be assessed in advance
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition
	In executions access (arlanged starsage in tanks contaminated with
Hazardous decomposition products	In exceptiona cases (prlonged storage in tanks contaminated with Inaerobic bacterica sulfate reducing microbial colonies0, the product may
•	and generate small amounts of sulfur compounds, incluing H2S
SECTION 11 - TOXICOLOGIAL INFORMA	
Acute toxicity (oral)	Not classified (based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (based on available data, the classification criteria are not met)
Acute toxicity (definal) Acute toxicity (inhalation)	Not classified (based on available data, the classification criteria are not met)
Additonal information	According to composition
All water soluble cutting oils	
LC 50 Inhalation rat	>5 mg/l/ (4 hours) (OECD 403)
ATE CLP (vapours)	5 mg/l/ (4 hours) (OECD 403)
ATE (dust, mist)	5 mg/l/ (4 hours) (OECD 403)
Alcohols, C16-C18 and C18-unsaid, eth	
LD 50 Oral rat	>2000 mg/kg of body weight (OECD 401)
LD 50 dermal rabbit	>3000 mg/kg of body weight (OECD 401)
LC 50 Inhalation rat	1.6 mg/l/ (4 hours) (OECD 403)
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	MATERIAL SAFET	TY DATA SHEET		
Alcoholls, C14-15- branched				
LD 50 Oral rat		>5000 mg/kg of body weight (OECD 401)		
LD 50 dermal rabbit		6180 mg/kg of body weight (OECD 402)		
LC 50 Inhalation rat				
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2) (Additive)			
LD 50 Oral rat		1208 mg/kg of body weight (OECD 401)		
LD 50 dermal rabbit		1800-1900 mg/kg of body weight (OECD 402)		
LC 50 Inhalation rat		1.4 mg/l/4H (EPA OPP 81-3) EU Method B.2		
1-2 benzoisothiazol-3(2H)-one (2634-3	33-5) (additive)			
LD 50 Oral rat		597 mg/kg of body weight (OECD 401)		
LD 50 dermal rabbit		>2000 mg/kg of body weight (OECD 401)		
Skin Corrosion/Irritation		Not classified (based on available data, classification criteria are not met)		
	According to composition			
		incontact may cause reddening, irritation		
	and dermatitis due to def	atting effect		
	pH 8.4 to 9 (at 5%)			
Serious eye damage/irritation	Not classified (based on a	vailable data, the classification criteria are not met)		
	pH 8.4 to 9 (at 5%)			
Respiratory or skin sensitization		vailable data, the classification criteria are not met)		
Additional information	According to cor			
		ponents with a specific concentration limit (SCL)		
Germ cell mutagenicity		vailable data, the classification criteria are not met)		
Additional information	According to cor	nposition		
	Contains 1,2 benzisothiaz	ol -2 (2H)- one		
	Causes sensitisation			
Carcinogenicity		vailable data, the classification criteria are not met)		
Additional information	dditional information According to composition			
		ontained in the product have a value of ,3%		
of DMSO extract, according to IP 346/92 (nota L Dir 9				
Reproductive toxicity	Not classified (based on available data, the classification criteria are not met)			
	According to composition			
		ntain any significant amounts of substacnes classified		
		by the EU (In any case ,0.1 wt%)		
Specific target organ	May casue drowsiness or	dizziness		
(Single exposure)				
Specific target organ		may casue irritation to airways, nausea and dizziness		
Repeated exposure	According to cor	nposition		
1-2 benzoisothiazol-3(2H)-one (2634-3	33-5) (additive)			
NOAEL (female ratF1)		56.6 mg/kg bodyweight		
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2) (Additive)	As per EPA OPPTS 870.3800		
LOAEL (male rat, F1)		2.8 mg/kg bodyweight/day		
LOAEL (female rat F1)		1.4 mg/kg bodyweight/day		
NOAEL (male rat.F1)		1.4 mg/kg bodyweight/day		
NOAEL (female rat.F1)		0.7 mg/kg bodyweight/day		
LOAEL oral rat		1.5 mg/kg bodyweight		
LOAEC inhalation, rat, vapour		8.1 mg/m3		
NOAEL oral rat		0.5 mg/kg bodyweight		
NOAEL (oral, rat.rabbit, 90 days)	equilated (COOOD CC 4) (Caller 1)	5-15 mouse		
Alcohols, C16-C18 and C18-unsaid, eth	iuxylated (68920-66-1) (Solvent)			
OAEL (oral, rat, 90 days)	2011 72 2) (Addition)	>5000 mg/kg bodyweight		
Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2) (Additive)	1 Emailia had weight		
LOAEL (oral, rat, 90 days)		1.5 mg/kg bodyweight		
		0.5 mg/kg bodyweight		
NOAEL (oral, rat, 90 days) Revision No 1				

	MATERIAL SAFET		
Aspiration hazard		sed on available data, the classification criteria are not met)	
Viscosity	>52 cst at 40 deg C (D445)		
Information on other hazards			
Endocrine disrupting properties		does not contain substances included in the list	
		with article 59(1) of REACH for having endocrine	
		not identified or having endocrine disrupting	
		ith the criteria set out in commission delegated	
	regulation (EU) 2017/2012	or commission regulation (EU) 2018/605	
Other information			
Potential adverse human effects		se temporary reddening and irritation. Irritant to skin,	
and symptoms		purs may induce; headache, nausea, dizziness. Avoid	
		d do not breath vapour and mist	
Other information	None		
SECTION 12 - ECOLOGICAL INFORMATIO		· · · · · · · · · · · · · · · · · · ·	
ECOTOXICITY/Ecolory-General		ic organisms, may cause long term adverse effects in	
A	the aquatic envir		
An uncon		to the environment may nevertheless produce a	
		ination of different environmental compartments (soil,	
		round, surface water bodies, aquifers). Handle according	
	-	ral working hygiene practices to avoid pollution and	
		into the environment. Notify authorities if produce enters	
		or public waters. Not soluble in water. If floats on water	
		ms a film on the surface. The damage to aquatic	
		ms is of mechanical kind (immobilization and	
Ecology - air	entraph This product has low yapp	nent ur pressure. A significant exposure may happen only	
		gh temperature or in case of sprays/mists	
Ecology water		above section on general ecotoxicity	
Hazardous to the aquatic environment, s			
Hazardous to the aquatic environment, I			
Alcohols, C16-C18 and C18-unsaid, ethox	-		
LC 50 fish 1		108 mg/L (LL 50, OECD 203)	
Alcoholls, C14-15- branched			
LC 50 fish 1		>500 mg/l (OECD 203)	
EC50 Daphnia 1		3.2 mg/l (EL 50, OECD 202)	
EcC50 72h = algae		0.1 - 1 mg/l (OECD 201)	
EC50 Daphnia 2			
1-2 benzoisothiazol-3(2H)-one (2634-33-	5) (additive)		
LC 50 fish 1		=16.7 mg/l	
LC 50 fish 2		=2.15 mg/l	
50 Other aquatic organisms 0.74 mg/l			
EC50 Daphnia 1		2.94 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2	11-73-2) (Additiye)		
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l 0.22 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 2	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 2 PERSISTENCE AND DEGRADABILITY	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 2 PERSISTENCE AND DEGRADABILITY All water soluble cutting oils	11-73-2) (Additive)	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	
LC 50 Other aquatic organisms EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38) LC 50 fish 1 LC 50 fish 2 ECC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 1 EC50 Daphnia 2 PERSISTENCE AND DEGRADABILITY All water soluble cutting oils Persistence and degradability Alcoholls, C14-15- branched		2.94 mg/l 2.94 mg/l =7.3 µg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 2 PERSISTENCE AND DEGRADABILITY All water soluble cutting oils Persistence and degradability		2.94 mg/l 2.94 mg/l =7.3 µg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	
EC50 Daphnia 1 EC50 Daphnia 2 Pyridine-2-thiol 1-oxide, sodium salt (38 LC 50 fish 1 LC 50 fish 2 EcC50 72h = algae EC50 Daphnia 1 EC50 Daphnia 2 PERSISTENCE AND DEGRADABILITY All water soluble cutting oils Persistence and degradability Alcoholls, C14-15- branched	Not established	2.94 mg/l 2.94 mg/l =7.3 μg/l =0.0066 mg/l 0.22 mg/l 0.6 mg/l	

MATERIAL SAFETY DATA SHEET BIO ACCUMULATIVE POTENTIAL All water soluble cutting oils Log POW Not applicable for mixtures Log Kow Not applicable for mixtures **Bioaccumulative potential** Not established 1-2 benzoisothiazol-3(2H)-one (2634-33-5) (additive) Bio concentration factor 3.2 Log POW 0.6 Mobility in Soil All water soluble cutting oils **Ecology Soil** No data available Mobility in soil Not determined Lubricating oils (petroleum) C24-50 hydrotreated nuetral oil-based, Baseoil - unspecified The test mthods for this end point are not applicable to UVCB substances **Ecology Soil** Kerosene (Petroleum), hydrodesulfurized (64742-81-0) The test mthods for this end point are not applicable to UVCB substances Ecology Soil Results of PBT and vPvB assessment All water soluble cutting oils This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII **Results of PBT-VpVB assessment** The components inthis formulation do not meet the criteria for (including components such alcohols, pyridine and classification as PBT or vPvB. The prodcut should be considered benzisothiazol) persistent' in the environment according to the REACH Annex XIII criteria (Point 1.1) Endocrine disrupting properties Adverse effects on the environment caused The mixture does not contain substances included in the list by endocrine disrupting properties established in accordance with article 50(1) of REACH for having endocrine disrupting properties, or is not idenfified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EC 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% SECTION 13 - DISPOSAL CONSIDERATIONS **Regional legislation** Disposal must be done according to official regulations Waste treatment Do not dispose of the product, either new or used, by dumping on the ground, or discharging methods seweres, tunnels, lakes or water courses. Deliver to a qualified official collector into Sewage disposal Do not apply industrial sludge to natural soils;. Sludge should be incinerated, contained or considerations reclaimed Dispose off in a safe manner in accordance with local and national regulations Product/Packing European Waste Catalogue code (s) (Decision 2001/118/CE): 12 01 07* (mineral based disposal consimachining oils free of halogens (except emulsions and solutions) 12 01 09(machining iderations emulsions and solutions free of halogesn. This EWC code is only a general indication indication and and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the acutal use Additonal Do not cut, weld, bore, t of the product, alterations and contaminations information and declared safe **Ecology-** waste materials The product as it is does not contain halogenated substances **EURAL Code** 12 01 07 - Mineral based machine oils free of halogens 12 01 09 - machining emulsions and solutions free of halogens (EWC) **SECTION 14 - TRANSPORT INFORMATION** In accordance with ADR/IMDG/IATA/AND/RID

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MATERIAL SAFETY DATA SHEET					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
UN Number or ID Number			····		
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082	
UN Proper shipping name Environmentally hazardous substance, liquid, NOS	Environmentally hazardous substance, liquid, NOS	Environmentally hazardous substance, liquid, NOS	Environmentally hazardous substance, liquid, NOS	Environmentally hazardous substance, liquid, NOS	
Transport document description					
UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16-18 and C 18 unsat ethoxylated, 9, III, (-)	UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols S (alcohols C16-18 and C hsat ethoxylated, 9, III, (-) UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16-18 and C 18 unsat ethoxylated, 9, III, (-) UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16-18 and C 18 unsat ethoxylated, 9, III, (-) UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16- 18 unsat ethoxylated, 9, III, (-) UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16- 18 unsat ethoxylated, 9, III, (-) UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16- 18 and C 18 unsat		UN 3082 Environmentally hazardous substance, liquid, NOS (alcohols C16-18 and C 18 unsat ethoxylated, 9, III, (-)		
Transport hazard class(es)					
9	9	9	9	9	
	۱				
Packing Group		<u>. </u>			
111	=	111	=	III	
Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes MARINE POLLUTANT	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementaty information					
Overland transport					
Transport regulations (ADR) Classification code (UN) Limited quantities (ADR) Excepted quantites (ADR) Transport category (ADR) Hazard Identifiction number (K Orange Plates	emler 2)	Subject to regulations M6 51 E1 3 90 90 90 90 90 3082			
Tunnel restriction code Transport by Sea Transport regulations (IMDG) IBC Packing instructions (IMDG Limited quantities (IMDG) Excepted quantites (ADR) EmS no Fire EmS No Spillage Stowage category (MDG))	- Subject to regulations 5 L E1 IBC03 F-A S-F A			
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Air transport						
Transport regulations (IATA)	Subject to regulat	ions				
PCA Excepted quantities IATA	E1					
PCA Limited qty max net qty IATA	30 kgG					
PCA Max net quantity IATA	450 ml					
CAO max net quantity IATA	450 ml					
Inland waterway transport						
Transport regulations (ADN)	Subject to regulat	ions				
Classification code (ADN)	M6					
Limited quantities (ADN)	5L					
Excepted quantites (ADN)	E1					
Rail transport						
Transport regulations ((RID))	Subject to regulat	ions				
Classification code ((RID))	M6					
Limited quantities ((RID))	5L					
Excepted quantites ((RID))	E1					
Transport category ((RID))	3					
Hazard Identifiction number (RID)	90					
IBC Code : Not applicable						
SECTION 15 - REGULATORY INFORMATION (Mixture)						
EU Regulations			7/2000	I		
The following restrictions are applicable according to An 3(b)	nex XVII of the REACI			the		
		Substances or mixtures fulfilling for any of the				
Soluble cutting oil; alcohols C16-C18 and C-18 unsat, eth	oxylated	/lated following hazard classes or categories set out in Annex 1 to Regulation EC No. 1272/2008:				
		-	to 3.6, 3.7 adverse effec			
			id fertility or on develop			
			han narcotic 3.9/3.10			
3(c) All water soluble cutting oils			tures fulfilling for any of	the		
Alcoholds, C-18-C18 and C18-unsat, ethoxylated, alcohol	c		classes or categories set o			
C14-C15 branched		in Annex 1 to Regulation EC No. 1272/2008:				
		Hazard classes 4.1				
No REACH Annex XVII/XIV restrictions						
No ingredients are included in the REACH candidate list (>0.1% m/m/)					
Other information, restriction and prohibition regulation	S					
Contains no substance subject to regulation EU No. 649/	2012 of the Europea	n parlianment and o	f the council			
Contains no substance subject to regulation EU No. 2019	/1021 of the Europe	an parlianment and	of the council			
of 20 June 2012 concerning persistent organic pollutants						
Contains no substance listed in PIC List EU No. 649/2012	of the European par	ianment and of the	council			
Contains no substance listed in POP List EU No. 649/2012	2 of the European pa	rlianment and of the	council			
Contains no substance listed in ozone depletion list EU N	o. 1005/2009					
Contains no substance listed in explosive percursons list	EU No. 2019/1448					
EC No. 1907/2006 EC 1272/20	08 67/548/	EEC 1999/45/EC	1907/2006	89/931/CEE		
89/654/CEE 89/655/CEE	90/269/	CEE 90/270/CEE	90/394/CEE	90/679/CEE		
93/88/CEE 95/63/CE	97/42/C	E 98/24/CE	99/38/CE	99/92/CE		
2001/45/CE 2003/10/CE	2003/18	/CE 2012/18/CE	2004/42/CE	98/24/EC		
98/25/CE 1005/2009	850/200	4 79/117/EEC	649/2012			
VOC Content 20% (EU, CI	H)					
Saveso additional information E2						
National Regulations						
National adoption of EU Directives concerning health and						
Relevant national laws of protection of the health of pre	-		5/EEC_			
Relevant national laws on protection of the health of pre	gnant workers (Dir 9	2/85/EEC)				
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substances (2012/18/CE). Relevant nationallaws on prevention of water pollution

National adoption of directives 75/439/CEE 0 87/101/CEE concerning disposal of used oils

Chemical safety assessment

Fr this mixture, a chemical safet assessment has not been carried out

A chemical safety assessment has been carried out for the following components of this mixture:

Pyridine-2-thiol 1-oxide, sodium salt (3811-73-2) (Additive)

Alcohols C16-C18 and C-18 unsat, ethoxylated

1-2 benzoisothiazol-3(2H)-one (2634-33-5) (additive)

SECTION	16 - OTHER INFORMATION					
	n of Changes Composition/informat	tion on ingredients				
Section	Changed from	Change	Notes			
	SDS EU format according to Commission					
	Regulation (EU) 2020/878					
1.1	Formula	Modified				
15.1	Saveso (EU)	Added				
	ATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT					
	shold Limit Value		veighted average			
	ort term exposure limit		sion expsoure limit			
	bally Harmonized System		al abstract service number			
ACGIH -		IMO/I				
	erican Petroleum Institute	SDS - Safety I				
	azardous Materials Information System		nal Fire Protection Association (USA)			
	partment of Transport		al Toxicology Program (USA)			
	ernational agency for research on cancer	OSHA -	mantal Drataction Aganay			
	ew chemical exposure limit If contained breathing apparatus		mental Protection Agency			
ND Not a	- · · ·		NA - Not applicable			
	erived No effect Level		CSR - Chemical Safety Report DMEL - Derived Minimum Effect Level			
	Effective Concentration , 50%		EL50 - Effective Loading, 50%			
	hibition concentration, 50%		LC 50 - Lethal concentration, 50% LL50 - Lethal loading, 50%			
	thal dose, 50%		NOEL - No observed effects level			
	ow observed adverse effects level					
	o observed adverse effects level		OECD Organization for economic co-op and devmt			
	dicted no effect concentration		ed, bioaccumulative, toxic			
	ngle Target Organ Toxicity		STOT - RE (above) with repeated exposure			
	(Above) with single exposure		ersistent, very bioaccumulative			
	usbtance of unkonw or variable composition, complex reac					
	ater accommodated fraction	N?A Not app	licable			
	t detectable or available					
ADN - Eu	ropean agreement concerning the international carriage of	f dangerous goods by				
inward w	aterways					
ADR- Eur	opean agrement concerning the international carriage of d	angerous goods by				
road						
ATE - Acu	ite Toxicity estimate					
BCF-Bioco	oncentration factor					
CLP - clas	sification labelling packaging refulation -regulation EC No.	1272/2008				
IATA - Int	ernatinal air transport association					
IMDG - Ir	nternation maritime dangerous goods					
	no observed adverse effect concentration					
NOEC No	observed effect concentration					
	Registration, authorisation and restriction of chemicals, reg	ulations No 1907/2006				
	ulation concerning the international carriage of dangerous					

RID - regulation concerning the international carriage of dangerous goods by railways

STP - sewage treatment plant

Data sources	This safety data sheet is based on the real characteristics of the components							
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and their combination, taking into account the information provided by the suppliers Training Advice - Provide adequate training to professional operators for the use of PPEs, according to the information contained in this safety data sheet Other information: Do not use the product for any purposes that have not been advised by

the manufacturer

Full text of R-, H- and EUH-phrases

Full text of R-, H- and EUH-phrases			
Acute Tox 4 (Oral)	Acute Toxicity (oral), category 4		
Aquatic acute 1	Hazardous to the aquatic environment - acute Hazard, category 1		
Aquatic chronic 1	Hazardous to the aquatic environment - CHronic Hazard, category 1		
Aquatic chronic 2	Hazardous to the aquatic environment - CHronic Hazard, category 2		
Aquatic chronic 3	Hazardous to the aquatic environment - CHronic Hazard, category 3		
Aquatic chronic 4	Hazardous to the aquatic environment - CHronic Hazard, category 4		
Eye Dam 1	Serious eye damage/eye irritation, category 1		
Eye Irrt. 2	Serious eye damage/eye irritation, category 2		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit.2	Skincorrosion/irritation, category 2		
Skin Sens. 1B	Sensitisation - Skin, category 1B		
Н 302	Harmful if swallowed		
Н 315	Causes Skin Irritation		
H 317	May cause an allergic skin reaction		
H 318	Causes serious eye damage		
Н 319	Causes serious eye irritation		
H 361f	Supsected of damaging fertility		
Н 400	Very toxic to acquatic life		
H 410	Very toxic to acquatic life with long lasting effects		
H 411	Toxic to acqualic life with long lasting effects		
Full text of R-, H- and EUH-phrases (con	tinued)		
H 412	Harmful to aquatic life with long lasting effects		
H 413	May cause long lasting effects to aquatic life		
R 22	Harmful if swallowed		
R 36/38	Irritating to eyes/skin		
R 38	Irritating to skin		
R 41	Risk of serious damage to eyes		
R 43	May cause sensitization by skin contact		
R 50/53	Very toxic to aquatic organisms, may cause long term adverse effects to them		
R 51/53	Toxic to aquatic organisms, ,may cause long term adverse effects		
R 53	May cause long term adverse effects in the aquatic environment		
R 62	Possible risk of impaired fertility		
Ν	Dangerous for the environment		
Xi	Irritant		
Xn	Harmful		
Classification and procedure used to del	iver the classification for mixtures according to		
regulation EC 1272/2008 (CLP)	Skin sen 1 H 317: aquatic chronic 2 H 411		

Prepared as per to the 29 CFR 1910.1200 (2012) and EU by United Grease and Lubricants Co LLC, PO Box 2685, Ajman,United Arab Emirates. Meets EU No. 2015/830 regulations also

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