SECTION 1 - PRODUCT AND	COMPANY II	DENTIFICATI	ON					
PRODUCT NAME HYDRAL	ILIC/TURBINE	/COMPRESS	OR/HEAT	Tr OILS		ISO '	AL	L
Product Use Clos Functior	al fluids/Hydr	aulic/Compr	essor/Tur	bine lubricants	Pro	duct Number	r	
Uses advised against:		ional inform						
Company Identification								
United Grease and Lubricar	nts Co LLC, PO	Box 2685, A	vjman, Un	ited Arab Emira	ates. Www.unite	edgrease.com		
Transportation Emergency	-	,	•	Health Emerge		Product Info		n
(971)(54) 2171575				(971)(54)21715	-	(971)(54)21		
SECTION 2 HAZARDS IDEN	TIFICATION				-	<u> </u>		
Classification		Not cla	assified as	hazardous acc	ording to 29 CFR	3 1910.1200 (2	2012)	
Hazards Not Otherwise Clas	sified		plicable				,	
Adverse Physico chemical,		-	-	fects: None to	be reported, acc	cording		
to the present EU regulatio								
properties and classification	-							
EC Index No N/A	EC No		AS No	N/A	REACH Regis	tration No	N/A	
SECTION 2 Label Elements	Leno		10 110		ne/territegis		11/1	
Labelling according to Regu	lation (FC) No	. 1272/2008	(CLP)					
EUH Statements				vailable on requ	iest			
Labelling according to Direc				•	ot classified			
Full text of H and EUH state					orelassifica			
Other hazards (not relevan			1 11					
Physical/Chemical			uctiblo b	ut not classified	l as flammable.	The creation		
r fiysical/ cheffical					temperatures w		ar	
		mal ambient		takes place at	temperatures w	inch are night	21	
Health				ad at high tomr	araturas conta	ct with hot		
nealth	If the product is handled or used at high temperatures, contact with hot							
	product or vapours may cause burns. Any material in case of accidents							
	involving pressurised circults and the like, may be accidentally injected							
	under the skin, even without external damage. In such a case the victim should be bought to an hospital as soon as possible, to get specialized							
		-	-	-		eclalized		
F				it for symptoms	•	b b		
Envjronment					hydrogen sulfid			
Contaminants	-				tures. H2S may a		the	
	tanks or other confined spaces, with danger to the workers that enter the							
	spaces. In these cases, overexposure to H2S may cause irritation to airways							
				ciournsess and				
This substance/mixuture do								
This substance/mixture doe								
SECTION 3 - COMPOSITION	I/INFORMATIO	UN UN INGR	EDIENTS	(SUBSTANCES)				
Not applicable		N.4	1	- alter and Carl				
3.2 Mxtures		Mineral bas	se oil, seve	erly refined				
	additives all the mineral base oils contained in this product have a value of							
				, 0	to IP 346/92 (no	•	•	
		- · ·		-	ust be regarded		-	
			-		ure limits for sor		es,	
		affecting th	e categor	y of mineral oil	s - contact the c	ompany rep.		
							_	
Revision No 1						•	1 of	14
Revision Date 25/07/2	2023	Product H	YDRAULIC	C/TURBINE/CO	MPRESSOR/HEA	AT Tr OILS		

Name	Product Identifier	%	Classification according to Directive 67/548/EEC		
Lubricating oils (petroleum), C24-50, solvent	CAS 101316-72-7	>99	Not classified		
extracted, dewaxed and hydrogenated	EC 309-877-7				
	ECINo. 649-530-00-X				
	REACH No. 01-2119489969-				

Hazardous ingredients and/or with relevant occupational expsoure limits

Full text of H and EUH statements:See section 16

SECTION 4 -	First Aid Measures				
General	In case of spotaneous v	omitting, transport the victin to a hospital, to verify the			
	possibility that the product has been aspired into the lungs				
inhalation	In case of disturbances owing to inhalation of vapours or mists, remove the victim from				
	exposure, keep at rest;	if necessary, seek medical attention, see also point 4.3			
		en if possible or assisted ventilation. Give external cardiac massage			
Skin		clothing and shoes. Wash thoroughly with soap and water.			
Contact		tion persists, seek medical advice. In case of contact with			
	-	ed part with plenty of cold water, and cover with guaze or clean			
		ring to a hospital. Do not use salts or ointments, unless directed by			
		nermia must be avoided. Do not put ice on the burn			
Eye contact		or at least 15 minutes. Keep eyelids well apart. If irritation persists, seek			
		of contact with hot product, cool affected part with plenty of cold			
		uaze or clean cloth. Call a doctor or bring to a hospital. Do not use salts			
		ected by doctor. Remove contact lenses, if present and easy to do so			
Ingestion		tting to avoid aspiration into the lungs. If the personis conscours			
		without swallowing. Keep at rest, callfor medical assistance or bring			
	to a hospital. If the casu	alty is inconsciou,s place in the recovery position. In case of			
	spontaneous vomitting,	keep head low, to avoid the risk of aspiration into the lungs			
Most import	ant symptoms and effect	ts, both acute and delayed			
Symptons/ir	njuries (general indication	ns) Prolonged and repeated skin contact may cause redenning			
		irritation and dermatitis			
Systems/Inju	uries after inhalation	This product has a low vapour pressure, and in normal co			
		at ambient temperature the concentration in the air is negligible.			
		A significant concentration may built uponlyif the product is used			
		at high temperature, or, in case of sprays and mists. In these cases			
		overexposure to vapours may cause irritation to airways, nausea			
		and dizziness. Symptoms include drowsiness, weakness, headache			
		dizziness, nausea, vomitting and dimming of vision			
Systems/Inju	uries after skin contact	Prolonged or repeated skin contact may cause a			
		d dermatitis, due to a defatting effect. Contact with hot product may			
	cause thermal burns	, , ,			
Systems/Iniu	uries after eye contact	Contact with eyes ma cause temporary reddening and irritation			
- ,,,	=	roduct or vapours may cause burns			
Symptoms/i	njuries after ingestion				
- 1		small quantities of the product may cause nausea, discomfort and			
	gastric disturbances.	shan quantities of the product may cause hausea, disconfiort and			
Sumptome /:	njuries upon intravenous	administration No information available			
Chronic sym	•	to be reported, according to the present classification criteria			
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Indication of any immediate medical attention and special treatment needed

If there is any suspicion of inhalation of H2S. The casualty should be sent immediately to hospital. Immediately begin artificial if breathing has ceased. Administer oxygen if necessary. Seek medical attention in all cases especially if th casualty has an altered state of consciousness or if symptoms do not resolve and in case of serious burns

SECTION 5 - FIRE F	IGHTING MEASURES
EXTINGUISHING M	IEDIA Dry powder, CO2, water spray, other extinsguhing gases (as per regulation)
	These means should be used by trained personnel only.
UNSUITABLE	Do not use a heavy water jets. They could cause splattering, and spread the fire
Special hazards ari	sing from the substance or mixture
Fire Hazard	The product is combustible, but not classified as flammable. The creation of
	flammable vapour mixtures takes place at temperatures which are higher than normal
	ambient levels
Explosion Hazard	In case of losses from pressurised circuits, the sprays may form mists. Take
into acco	unt that in this case the lower explostion limit for mists is about 45g/m3 of air
Hazardous decom	position products in case of fire
	Incompelte combustion releases dangerous carbon monoxide, carbon di oxide
	and other toxic gases Nox, H2S, Sox, oxygenated compounts (aldehydes etc.; Pox
	XNoX, CaOx
Advice for firefigh	ters
Firefighting instru	ctions Shut off source of product, if possible. If possible, move containers and drums
	away from danger area. Spilled product which is not burning should be covered
	with sand or foam. Use water sprays to cool containers and surfaces exposed
	to the flames. If the fire cannot be controlled, evacuate area
Special protective	equipment for firefighters
	Wear personal protection equipment (see chapter 8).
	Self contained breathing apparatus
Other information	In case of fire, do not discharge residual product, waste materials and run
	off water. Collect separately and use a proper treatment
	ENTAL RELEASE MEASURES
Personal precaution	ons, protective equipment and emergency procedures
	Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources
	if safe to do so (e.g. electricity, sparks, fires, flares). Avoid contact
	with released material
For Non emergend	
Protective Equipm	
Emergency Proced	
	personnel. Except in case of small spillages, the feasibility of any actions
	should always be assessed and advised, if possible, by a trained, competent
	person in charge of managing the emergency.
For Emergency Re	
Protective equipm	
	Small spillages: normal antistatic working clothes are usually adequate.
	Large spillate: full body suit of chemically resistant and antistatic mtl
	necessary heat resistant and insulated. Work gloves providing adequate
	chemical esistance, specifically to aromatic hydrocarbons. Gloves made of
	PVA are not water-resistant, and are not suitable for emergency use.
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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. Notify local authorities according to relevant regulations

	oxygen densiency is possible, only beby to should be doed.
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	s in accordance with local regulations. The site should have a spill
plan to ensure that adequate saf	feguards are in place to minimize the impact of episodic releases.
Methods and material for contai	inment 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
	containers and store/dispose according to relevant regulations
Other Information	Recommended measures
are based on t	the most likely spillage scenarios for this material; however, local
conditions (wi	ind, air temperature, wave/current direction and speed)
may significan	tly influence the choice of appropriate actions.
Local regulation	ons may also prescribe or limit actions to be taken.
Reference to other sections	
for further information, refer to s	section 8 and 13
SECTION 7 HANDLING AND STOP	AGE
Precautions for safe handling	This material is combustible, but will not ignite readily. Provide adequate
	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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Because of the extremely slippery nature of this material, more care than

Product Functional fluids/Hydraulic/Compressor/Turbine lubricants

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		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			
		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 temper	atures	0 to 65 deg C			
Hygeine Measure	es	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			
Conditions for sa	fe storage, includ	ding any incompatibilities			
Stoage condition	S	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			
		tightly closed and properly labelled			
Incompatible Pro	oducts	Strong acids, strong oxidants. Strong bases/alkalies			
Storage tempera		0 to 55 deg C			
Storage area		yout, tank design, equipment and operating procedures must			
		e local legislation. Storage installations should be designed			
		bunds so as to prevent ground and water pollution in case of			
	-	Cleaning, inspection and maintenance of internal structure of			
		nust be done only by properly equipped and qualified personnel			
	-	ational, local or company regulations.			
Package and Con		If the product is supplied in containers, keep containers tightly closed and			
i dekage and con	laners	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 Mater	iale	For containers, or container linings use materials specifically approved			
rackaging water	1015	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 mateiral specifications and intended use.			
Creatific End Lloop		No information available			
Specific End Uses					
		S/PERSONAL PROTECTION			
Mineral base oil	tional exposure a	and biological limit values (US NIOSH, ACGIH AND OSHA)			
wineral base of		NIOSH REL (TwA) mg/m3 - 5 (mineral oil mist, severly refined)			
		NIOSH REL (STEL) mg/m3-10 mg/m3			
		ACGIH TLV-TWA - 5 MG/M3			
		ACGIH TLV - STEL - 19 mg/m3			
		OSHA PEL (TWA) - 5 mg/m3			
		·			
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		-			
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All hydraulic/compressor/turl	bine oils				
DNEL AND PNEC (additional information)					
Long term systemic effects inhalation Not applicable					
Lubricating oils (petroleum), C24-50, solvent extracted, dewaxed and hydrogenated (10131607207)					
DNEL AND PNEC (Workers)					
Long term systemic effects de	rmal	1.2 mg/kg bodyweight/day			
Long term systemic effects inl	halation	2.7 mg/m3			
Long term local effects inhala	tion	5.6 mg/m3			
DNEL AND PNEC (General pop	ulation)				
Long term systemic effects, or	ral	0.74 mg/kg bodyweight/day			
PNEC oral					
PNEC oral (secondary poisoni	ng)	9.33 mg/kg food			
Additional information	Note: The de	rived no effect level (CNEL) is an estimated safe level of			
	exposure that	at is derived from toxicity data in accord with specific guidance			
	within the Eu	uropean REACH regulations. The DNEL may differ from an			
	Occupationa	l Exposure Limit (OEL) for the same chemical. OELs may be			
	recommende	ed by an individual company, a governmental regulatory			
	body or an e	xpert organization, such as the soceity committee for			
	occupation e	exosure limit (SCOEL), or the Americal conference of governmental			
	industrial hy	geinits (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 w	eek, as a time weighted average (TWA) or a 15 minute short			
	term expsou	re limit (STEL). While also considered to be protective of			
	health, OELs	are derived by a process different from that of REACH			

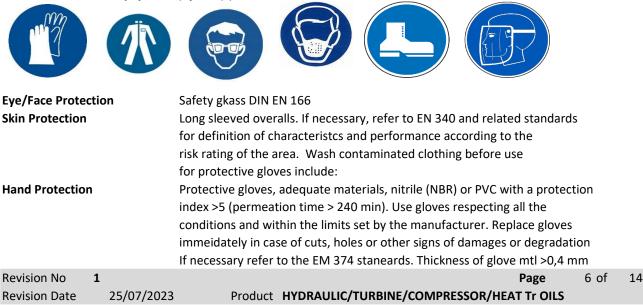
EXPOSURE CONTROLS

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, dust/aerosol mask **Personal Protective Equipment (Synbol(s):**



	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 necessity. 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 resistant and thermally insulated

Environmental exposure controls

Stoage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed Do not discharge the product into the environment.

Consumer expsoure controls

Ensure adequate ventilation. No special requirements necessary, if handled at room temp

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

SECTION 9 - PHYSICAL AND CHEMICAL I	PROPERTIES
Attention: The data below are typica	l values and do not constitute a specification
Color	Yellow brown
Physical State	Liquid
Odor	Slight odor of petroleum
Odor Threshold	No data available
рН	Not applicable
Vapor Pressure	≤ 0.1 hPa (20 deg C) mineral oil (D 5191)
Boiling Point	>250 deg C (D 1120)
Solubility	Insoluble in water
Freezing Point	≈- deg C (CAS101316-72-7)
Boiling Point	>200 deg c (D 1160)
FlashPoint	>180 deg c (D 93)
Self ignition temperature	>300 deg C(DIN 51794)
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Density		>0.89 kg/L @ 20°C (Typical)
Viscosity		> 3 to 30 cst at 100 deg C
Log Kow		Not applicable for mixutures
Evaporation Rate		No data available
Decomposition Temperature		No data available
Octanol/Water Partition Coeff	icient	No data available
VOC Content		0% (EU, CH)
Flammability		No data available
Explosive properties		None
Oxidising properties		None
Explosive limits		None
Lower explosion limit		>45 g/m3 (mineral oil mists)
Upper explostion limit		None
Autoignition temperature		Not determined
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 ph	vsical hazard classes	
No additional information ava		
Other safety characteristics	habie	
-	ylacetate=1) Negligible. No oth	ner data available
SECTION 10 - STABILITY AND		
Reactivity		s not offer any further hazard, except what
Reactivity		following paragraphs
Chemical Stability		cording to its intrinsic properties
-	aterials: Strong oxidants and a	
Possibility of Hazardous react	-	nal conditions of storage and handling). Contace
-	•	use a fire hazarad. A mixture with nitrates
=		id oxygen) may create an explosive mass
	or shock cannot be assessed ir	
Conditions to avoid		g oxidants, open flames, hot surfaces and sources of
	ignition. Avoid buildup of st	
Hazardous decomposition pro		cases (prionged storage in tanks contaminated with
		reducing microbial colonies0, the product may
		s of sulfur compounds, inclduing H2S
SECTION 11 - TOXICOLOGIAL		
Acute toxicity (oral)		ilable data, the classification criteria are not met)
Acute toxicity (dermal)		ilable data, the classification criteria are not met)
Acute toxicity (inhalation)	•	ilable data, the classification criteria are not met)
Additional information	According to composition	mable data, the classification chieffa are not met
	<u> </u>	vaxed and hydrogenated (10131607207)
LD 50 Oral rat	2 - 30, solvent extracted, dev	>5000 mg/kg of body weight (Calculated data)
LD 50 dermal rabbit		>2000 mg/kg of body weight (Calculated data)
LC 50 Inhalation rat		2.18-5.53 mg/l/ (4 hours) (Calculated data)
	Not classified (based on ave	
Skin Corrosion/Irritation	Not classified (based on ava	ilable data, classification criteria are not met)
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	IVIA I ERIAL SAF	ETT DATA SHEET				
	According to composition					
	Prolonged or repeated skind	contact may cause reddening, irritation				
	and dermatitis due to defatt	ting effect				
	pH Not applicable					
Serious eye damage/irritation	Not classified (based on ava	ilable data, the classification criteria are not met)				
	pH Not applicable					
Respiratory or skin sensitizatio	on Not classified (based on ava	ilable data, the classification criteria are not met)				
Additional information	According to composition	on				
	Containes amines, C12-C14	tert-alkyl amount contained in the product <0.1%				
Germ cell mutagenicity	Not classified (based on available data, the classification criteria are not met)					
Additional information	According to composition	on				
	This product does not conat	in any significant amounts of substances				
	classified as mutagenic by th	ne EU (in any case <0.1 wt%)				
Carcinogenicity	Not classified (based on ava	ilable data, the classification criteria are not met)				
Additional information	According to composition	on				
	All the mineral base oils con	tained in the product have a value of ,3%				
	of DMSO extract, according	to IP 346/92 (nota L Dir 94/69/CE)				
Reproductive toxicity	Not classified (based on ava	ilable data, the classification criteria are not met)				
	According to compositi	According to composition				
	•	This product does not contain any significant amounts of substacnes classified				
		the EU (In any case ,0.1 wt%)				
Specific target organ		ilable data, the classification criteria are not met)				
(Single exposure)	According to composition					
Specific target organ	-	ilable data, the classification criteria are not met)				
Repeated exposure	According to composition	on				
Mineral base oil, severely refi	ined					
LOAEL (oral, rat, 90 days)		125 mg/kg of body weight/day (OECD TG 408)				
LOAEL (dermal, rat/rabbit, 90		100 mg/kg bodyweight/day (mouse OECD 453)				
NOAEL (dermal, rat/rabbit, 90		1000-2000 mg/mg bodyweight/ day (OECD 410)				
NOAEC (inhalation, rat, vapou		220-1500 mg/m3 (OECD 412)				
Aspiration hazard Potential adverse human	•	n available data, the classification criteria are not met)				
health effects		n contact may cause reddening, irritation and				
		effect. Contact with eyes may cause temporary				
and symptoms	irritation					
Additional information	According to composition					
Viscosity	5 to 680 cst at 40 degC					
SECTION 12 - ECOLOGICAL INF		opents, and by comparison withother products of				
	According to the compo	onents, and by comparison withother products of				
	According to the compo the same type and com	position, it is expected that this product has a				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar	position, it is expected that this product has a hisms >199mg/L and must not be regarded as				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro	position, it is expected that this product has a nisms >199mg/L and must not be regarded as onment				
	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the	position, it is expected that this product has a hisms >199mg/L and must not be regarded as ponment environment may nevertheless produce a				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the contamination	position, it is expected that this product has a hisms >199mg/L and must not be regarded as conment environment may nevertheless produce a n of different environmental compartments (soil,				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the contamination underground,	position, it is expected that this product has a hisms >199mg/L and must not be regarded as onment environment may nevertheless produce a n of different environmental compartments (soil, surface water bodies, aquifers). Handle according				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the contamination underground, to general wo	position, it is expected that this product has a hisms >199mg/L and must not be regarded as onment environment may nevertheless produce a n of different environmental compartments (soil, surface water bodies, aquifers). Handle according rking hygiene practices to avoid pollution and				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the contamination underground, to general wo release into th	position, it is expected that this product has a hisms >199mg/L and must not be regarded as onment environment may nevertheless produce a n of different environmental compartments (soil, surface water bodies, aquifers). Handle according rking hygiene practices to avoid pollution and he environment.				
ECOTOXICITY/Ecolory-Genera	According to the compo the same type and com toxicity for aquatic orar dangerous to the enviro rolled release to the contamination underground, to general wo release into th	position, it is expected that this product has a hisms >199mg/L and must not be regarded as onment environment may nevertheless produce a n of different environmental compartments (soil, surface water bodies, aquifers). Handle according rking hygiene practices to avoid pollution and				

Ecology water

if the product is used at high temperature or in case of sprays/mists This product is not soluble in water and floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)

Hazardous to the aquatic environment, short term acute: Not applicable

Hazardous to the aquatic environment, long term chronic: Not applicable

,			
All hydraulic/compressor/turbine oils			
LC 50 fish 1			
LC 50 fish 2			
EC50 Daphnia 1	>100 mg/L (calculated data)		
NOEC Chronic algae	100 mg/l (21d)		
Lubricating oils (petroleum), C24-50, sol	lvent extracted, dewaxed and hydrogenated (10131607207)		
LC 50 fish 1	>100 mg/L (OECD 203)		
LC 50 fish 2			
EC50 Daphnia 1	>10000 mg/L (OECD 202)		
NOEC (acute)	>100 mg/l (OECD 201)		
NOEC chronic fish	>1000 mg/L (CALCULATED)		
NOEC chronic crustacea	>1000 mg/L (OECD 211)		
PERSISTENCE AND DEGRADABILITY			
All hydraulic/compressor/turbine oils			
Persistence and degradability	The most significant constituents of the product shuld be		
	considered as 'inherently biodegradable', but not as		
	readily biodegradable" and they may be moderately		
	persistent, particularly in anaerobic conditions		
Lubricating oils (petroleum), C24-50, sol	lvent extracted, dewaxed and hydrogenated (10131607207)		
Persistence and degradability	The most significant constituents of the product shuld be		
<i>c</i> ,	considered as 'inherently biodegradable', but not as		
	readily biodegradable" and they may be moderately		
	persistent, particularly in anaerobic conditions		
BIO ACCUMULATIVE POTENTIAL			
All hydraulic/compressor/turbine oils			
Log POW	Not applicable for mixtures		
Log Kow	Not applicable for mixtures		
Bioaccumulative potential	test methods are not applicable to UVCB stuff		
Mobility in Soil			
All hydraulic/compressor/turbine oils			
Mobility in soil	Not determined		
Results of PBT and vPvB assessment			
ALL KINDS OF GEAR OILS and Mineral ba	ase oils, severely refined		
	the PBT criteria of REACH regulation, , Annex XIII		
,	he vPvB criteria of REACH regulation, Annex XIII		
Results of PBT-VpVB assessment	The components inthis formulation do not meet the criteria for		
	classification as PBT or vPvB. The prodcut should be considered		
	persistent' in the environment according to the REACH		
	Annex XIII criteria (Point 1.1)		
Other adverse effects	None		
Additional information	This product has no specific properties for inhibition of		
	bacterial activity. In any case, wastewater containing this		
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product should be treated in plants that are suited for the specific purpose

SECTION 13 - DISI	POSAL CONSIDERA			
		the product, either new or us	ed, by dumping on the gro	und, or discharging
methods	=	eres, tunnels, lakes or water o		
Sewage disposal		strial sludge to natural soils;. S	•	
considerations		ose off in a safe manner in ac		
Product/Packing	-	Catalogue code (s) (Decision 20		-
disposal consi-	•	ngine, gear and lube oils) This		
iderations		ount the original composition		
		esponsibility of choosing the r	•	
		ne product, alterations and con		S the dedtal use
Additonal Do		•		e heen cleaned
information	Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe			
Ecology- waste		The product as it is does not contain halogenated substances		
materials	inc			-
EURAL Code				
(EWC)	13 በ	2 05 - Mineral based non chlo	rinated engine, gear and lu	ubricating oils
	NSPORT INFORMA			
	th ADR/IMDG/IATA			
ADR	IMDG	IATA	ADN	RID
UN Number or ID	Number		-	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shippi	ng name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard	class(es)		-	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Packing Group	-			•
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Environmental ha	azards			ł
egulated	Not regulated	Not regulated	Not regulated	Not regulated
Special precautio	ns for user:			
Overland transpo		Not regulated		
Transport by sea		Not regulated		
Air transport		Not regulated		
	nland waterway transport Not regulated			
Rail transport		Not regulated		
-	according to annex	II of MARPOL 73/78 and the II	3C Code	
IBC Code None				
SECTION 15 - REC	GULATORY INFORM	IATION (Mixture)		
EU Regulations				
No REACH Annex	XVII restrictions			
No ingredients are	e included in the RE	ACH candidate list		
-		ohibition regulations		
EC No. 1907/2006		272/2008 67/548/EEC	1999/45/EC 19	07/2006 89/931
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	-,,		,	

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/CE	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	850/2004	79/117/EEC	649/2012	
VOC Content	0% (EU, CH)				
EURAL Code (EWC)	13 02 05				

National Regulations

National adoption of EU Directives concerning health and safety on the workplace

Relevant national laws of protection of the health of pregnant workers (national adoption of 92/85/EEC_

National adoption of EU directives concerning control of major-accident hazards involving dangerous

substances (2012/18/CE). Relevant nationallaws on prevention of water pollution

Chemical safety assessment

This mixture is classified as not hazardous according to regulation EC 1272/2008 (CLP)

No chemcail safety assessment has been carried out

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

Lubricating oils (petroleum), C24-50, solvent extracted, dewaxed and hydrogenated (10131607207)

SECTION 16 - OTHER INFORMATION

Indication of Changes Modification as per regulation EC 1907/2006 and 453/2010

		-
Section	Changed item	Change
1.1	Formula	Modified
2.1	Adverse effects	Modified
2.3	Other hazards	Modified
3	Composition	Modified
8.1	DNEL/DMEL/PNEC values	Modified
9.1	boiling point	Added
9.1	auto ignition temperaure	Added
9.1	critical temperatue	Added
9.1	critical pressure	Added
9.1	freezing point	Added
11	additional information	Modified
15	water hazard class (WGK) D	Modified
15	WGK remark	Modified
16	other information	Modified
16	indication of changes	Modified

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT

TLV - Treshold Limit Value	TWA - Time weighted average		
STEL - Short term exposure limit	PEL - Permission expsoure limit		
GHS - Globally Harmonized System	CAS - Chemical abstract service number		
AC	IMO/IM		
API - American Petroleum Institute	SDS - Safety Data Sheet		
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)		
DOT - Department of Transport	NTP - National Toxicology Program (USA)		
IARC - International agency for research on cancer	OSHA -		
NCEL - New chemical exposure limit	EPA - Environmental Protection Agency		
SCBA - Self contained breathing apparatus	NA - Not applicable		
ND Not available	CSR - Chemical Safety Report		
DNEL - Derived No effect Level	DMEL - Derived Minimum Effect Level		
EC - 50 - Effective Concentration , 50%	EL50 - Effective Loading, 50%		
IC 50 - Inhibition concentration, 50%	LC 50 - Lethal concentration, 50%		
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	MATERIAL	SAFETY DATA SHEET
LD 50 -Lethal dose, 50%		LL50 - Lethal loading, 50%
LOAEL - Low observed adv	erse effects level	NOEL - No observed effects level
NOAEL No observed adver	se effects level	OECD Organization for economic co-op and devmt
PNEC Predicted no effect of	oncentration	PBT - Predicted, bioaccumulative, toxic
STOT - Single Target Organ	Toxicity	STOT - RE (above) with repeated exposure
STOT - SE (Above) with sin	gle exposure	vPvB - Very persistent, very bioaccumulative
UVCB - susbtance of unkor	w or variable composition, co	mplex reaction products of bio materials
WAF - Water accommodat	ed fraction	
ADN - European agreemen	t concerning the international	carriage of dangerous goods by
inward waterways		
ADR- European agrement	concerning the international ca	arriage of dangerous goods by
road		
ATE - Acute Toxicity estimation	ate	
BCF-Bioconcentration factor	or	
CLP - classification labelling	g packaging refulation -regulati	ion EC No. 1272/2008
IATA - Internatinal air trans	sport association	
IMDG - Internation maritin	ne dangerous goods	
NOAEC - no observed adve	erse effect concentration	
NOEC No observed effect of	concentration	
REACH - Registration, auth	orisation and restriction of che	emicals, regulations No 1907/2006
RID - regulation concerning	g the international carriage of o	dangerous goods by railways
STP - sewage treatment pla	ant	
Data sources This saf	ety data sheet is based on the	real characteristics of the components
and their combination, tak	ing into account the information	on provided by the suppliers
Training Advice - Provide a	dequate training to profession	al operators for the use of PPEs,
according to the information	on contained in this safety data	a sheet
Other information: Do not	use the product for any purpo	ses that have not been advised by
the manufacturer		
Full text of R-, H- and EUH	-phrases	
Acute Tox 4 (Oral)	Acute Toxicity (oral), cat	egory 4
Aquatic acute 1	Hazardous to the aquati	c environment - acute Hazard, category 1
Aquatic chronic 1	Hazardous to the aquati	c environment - CHronic Hazard, category 1
Aquatic chronic 2	Hazardous to the aquati	c environment - CHronic Hazard, category 2
Aquatic chronic 3	Hazardous to the aquati	c environment - CHronic Hazard, category 3
Aquatic chronic 4	Hazardous to the aquati	c environment - CHronic Hazard, category 4
Eye Dam 1	Serious eye damage/eye	e irritation, category 1
Eye Irrt. 2	Serious eye damage/eye	e irritation, category 2
Repr. 2	Reproductive toxicity, Ca	ategory 2
Skin Irrit.2	Skincorrosion/irritation,	category 2
Skin Sens. 1B	Sensitisation - Skin, cate	gory 1B
Н 302	Harmful if swallowed	
Н 315	Causes Skin Irritation	
Н 317	May cause an allergic ski	in reaction
Н 318	Causes serious eye dama	
Н 319	Causes serious eye irrita	-
H 361f	Supsected of damaging f	
Н 400	Very toxic to acquatic life	-
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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- an	d EUH-phrases (continued)
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 pro	ocedure used to deliver the classification for mixtures according to
regulation EC 1272/2	2008 (CLP)

Acute Tox 4 (Oral) as per H 302

STOT RE 2 as per H 373

Calculation method Calculation method

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