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

1.1 Product identifier					
Trade name :	BIOTURBO ADVANCED				
Product code :	0000000062652598				
1.2 Relevant identified uses of the s	substance or mixture and uses advised against				
Use of the Sub- : stance/Mixture	Cleaning agent				
1.3 Details of the supplier of the sat	fety data sheet				
Company :	Antec International Limited Windham Road CO10 2XD Sudbury / Suffolk Chilton Industrial Estate, Great Britain				
Responsible Department :	+49 221 8885 2288 infosds@lanxess.com				
1.4 Emergency telephone number					
Emergency telephone number :	For 24/7 multilingual emergency please call CHEMTREC EMEA: +44 20 3885 0382 and mention CCN 1001748.				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)





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Hazard pictograms		:		
Signa	l word	:	Danger	
Haza	rd statements	:	H314 Causes s	evere skin burns and eye damage.
Preca	Precautionary statements			tective gloves/ protective clothing/ eye protec- on/ hearing protection.
			P304 + P340 + P3 air and keep com POISON CENTED P305 + P351 + P3 with water for sev sent and easy to POISON CENTED P363 Wash cor	ting. 353 IF ON SKIN (or hair): Take off immedi- ated clothing. Rinse skin with water. 310 IF INHALED: Remove person to fresh fortable for breathing. Immediately call a R/ doctor. 338 + P310 IF IN EYES: Rinse cautiously eral minutes. Remove contact lenses, if pre- do. Continue rinsing. Immediately call a
			Storage: P405 Store lock	ked up.
			Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste

Hazardous components which must be listed on the label: Alcohols, C12-14, ethoxylated, sulfates, sodium salts sodium hydroxide

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

	Chemical name	CAS-No.	Classification	Concentration
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			EC-No. Index-No. Registration	number		(% w/w)
Alcohols, C fates, sodiu	12-14, ethoxylate m salts	d, sul-	68891-38-3 500-234-8		Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10 - < 20
2-butoxyeth	anol		111-76-2 203-905-0 603-014-00-0 UK-01-29518 1-0001		Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1,200 mg/kg	>= 1 - < 10
sodium hyd	roxide		1310-73-2 215-185-5 011-002-00-6	3	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 2 - < 3
	2-14 (even numb yl, N-oxides	ered)-	308062-28-4 931-292-6		Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - < 1

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 6, 7, 8, or 9 in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

Specific Concentration limits (Regulation EC) No 1272/2008)

<u> </u>	······································				
Chemical name	CAS-No.	Classification	Concentration		
	EC-No.		(%)		
Alcohols, C12-14, ethoxylated,	68891-38-3	Eye Irrit.2; H319	> 5 - < 10 %		
sulfates, sodium salts	500-234-8	Eye Dam.1; H318	> 10 %		
sodium hydroxide	1310-73-2	Skin Corr.1A; H314	>= 5 %		
	215-185-5	Skin Corr.1B; H314	2 - < 5 %		
		Skin Irrit.2; H315	0.5 - < 2 %		
		Eye Irrit.2; H319	0.5 - < 2 %		

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures					
General advice	 Move out of dangerous area. Do not leave the victim unattended. Call a physician immediately. Show this safety data sheet to the doctor in attendance. 				
Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing No action shall be taken involving any personal risk or without suitable training.				
If inhaled	 Chemical burns must be treated promptly by a physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Keep respiratory tract clear. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 				
In case of skin contact	 Chemical burns must be treated promptly by a physician. Take off contaminated clothing and shoes immediately. If on skin, rinse well with water. Continue to rinse for at least 10 minutes. 				
In case of eye contact	 Chemical burns must be treated promptly by a physician. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Keep eye wide open while rinsing. Continue to rinse for at least 10 minutes. Remove contact lenses. Protect unharmed eye. Continue rinsing eyes during transport to hospital. 				
If swallowed	 Chemical burns must be treated promptly by a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Rinse mouth with water. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Keep respiratory tract clear. 				





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4.2 Most i Risks		nd e :	effects, both acute and delayed Causes serious eye damage. Causes severe burns.		
4.3 Indica Treat	•	meo :	lical attention and Treat symptomati	I special treatment needed cally.	
SECTION	N 5: Firefighting meas	sur	es		
5.1 Exting	guishing media				
Suital	ble extinguishing media	:	Use water spray, bon dioxide.	alcohol-resistant foam, dry chemical or car-	
Unsu media	itable extinguishing a	:	High volume wate	er jet	
5.2 Specia	al hazards arising from	the	substance or mix	xture	
Speci fightir	ific hazards during fire- ng	:	container may but	ed, a pressure increase will occur and the rst. off from fire fighting to enter drains or water	
Haza ucts	rdous combustion prod-	:	: Carbon dioxide (CO2) Carbon monoxide Metal oxides		
5.3 Advic	e for firefighters				
	ial protective equipment efighters	:	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		
Furth	er information	:	vicinity of the incid No action shall be suitable training. Collect contamina must not be disch Fire residues and	he scene by removing all persons from the dent if there is a fire. taken involving any personal risk or without ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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Personal precautions	: No action shall be taken involving any personal risk or suitable training.	without
	Keep unnecessary and unprotected personnel from en	tering.
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		Avoid contact Do not breathe Ensure adequa In case of inad Remove all so	or walk through spilt material. with skin and eyes. e vapours or spray mist. ate ventilation. lequate ventilation wear respiratory protection. urces of ignition. protective equipment.	
6.2 Envi	ronmental precautions			
		soil, waterway Prevent produ Prevent furthe If the product o	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.	
6.3 Meth	ods and material for co	ontainment and clea	aning up	
Methods for cleaning up :		Stop leak if sa Soak up with ii acid binder, ur Keep in suitab	ers from spill area. fe to do so. nert absorbent material (e.g. sand, silica gel, niversal binder, sawdust). le, closed containers for disposal. stes in an approved waste disposal facility.	

6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	For personal protection see section 8. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	:	General industrial hygiene practice. When using do not eat, drink or smoke. Wash hands and face before breaks and im-
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				andling the product. Remove contaminated ective equipment before entering eating are-
7.2 Con	ditions for safe storage,	including	any incom	patibilities
	Requirements for storage : areas and containers		Store in accordance with local regulations. Store in a segre- gated and approved area. Do not store in unlabelled contain- ers. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep contain- ers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to preven leakage. Electrical installations / working materials must com- ply with the technological safety standards.	
Adv	rice on common storage	: No m	aterials to b	e especially mentioned.
	ther information on stor- stability	: Stabl	e under reco	ommended storage conditions.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
2-butoxyethanol	111-76-2	TWA	25 ppm	GB EH40		
			123 mg/m3			
	Further inform	ation: Can be absor	bed through the skin. The as	signed sub-		
	stances are th	ose for which there	are concerns that dermal abs	sorption will		
	lead to systen	nic toxicity.				
		STEL	50 ppm	GB EH40		
			246 mg/m3			
	Further inform	ation: Can be absor	bed through the skin. The as	signed sub-		
	stances are th	ose for which there	are concerns that dermal abs	sorption will		
	lead to systen	nic toxicity.				
		TWA	20 ppm	2000/39/EC		
			98 mg/m3			
	Further inform	ation: Identifies the	possibility of significant uptak	through the		
	skin, Indicative					
		STEL	50 ppm	2000/39/EC		
			246 mg/m3			
	Further information: Identifies the possibility of significant uptake through the					
	skin, Indicative					



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L	m hydroxide 1310 gical occupational e	-73-2 STEL	_	13	GB EH40	
	ance name	CAS-No.	Control parameters	Sampling time	Basis	
2-but	oxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT	

8.2 Exposure controls

Engineering measures

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipme	nt	
Eye/face protection	:	Safety glasses with side-shields Wear face-shield and protective suit for abnormal processing problems.
Hand protection		
Material	:	Butyl rubber - IIR
Wearing time	:	< 60 min
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamina- tion with product change the gloves immediately and dispose of them according to relevant national and local regulations
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concen- tration of the dangerous substance at the work place.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Odour Threshold	:	No data available
Odour	:	slight
Colour	:	colourless
Physical state	:	liquid
Appearance	:	liquid





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Meltir	ig point/range	:	No data availab	le
Boilin	g point/boiling range	:	No data availab	le
Flamr	nability	:	Not applicable	
	r explosion limit / Upper nability limit	:	No data availab	le
	r explosion limit / Lower nability limit	:	No data availab	le
Flash	point	:	100 °C Method: Not ap not determined	plicable
Ignitic	on temperature	:	No data availab	le
Deco	mposition temperature	:	No data availab	le
рН		:	> 13 Concentration:	100 %
Visco Vis	sity scosity, dynamic	:	No data availab	le
Vis	scosity, kinematic	:	No data availab	le
	ility(ies) ater solubility	:	completely misc	sible
Sc	lubility in other solvents	:	No data availab	le
	on coefficient: n- ol/water	:	No data availab	le
Vapo	ur pressure	:	No data availab	le
Relati	ve density	:	1.04	
Densi	ty	:	1.04 g/cm3 (20	°C)
Relati	ve vapour density	:	No data availab	le
.2 Other	information			
Explo	sives	:	No data availab	le







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Oxidiz	zing properties	:	No data available	e		
Self-iç	gnition	:	No data available	e		
Metal	corrosion rate	:	No data available	e		
Evapo	pration rate	:	: No data available			
Miscik	pility with water	:	completely misci	ble		
Surfac	ce tension	:	No data available	e		
Molec	cular weight	:	No data available	e		

SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with acids. Contact with strong oxidising agents may cause hazardous reactions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Under normal conditions of storage and use, hazardous reac- tions will not occur.
10.4 Conditions to avoid Conditions to avoid	:	contact with incompatible materials
10.5 Incompatible materials Materials to avoid	:	Acids

Materials to avoid

Acids Oxidizing agents Metals

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified due to lack of data.





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Produ	ict:			
-	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
Acute inhalation toxicity		:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Comp	onents:			
Alcoh	ols, C12-14, ethoxyla	ated,	sulfates, sodiur	n salts:
Acute	oral toxicity	:		e and female): 2,870 mg/kg Test Guideline 401
Acute	dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: Yes	
2-but	oxyethanol:			
Acute	oral toxicity	:		stimate: 1,200 mg/kg toxicity estimate according to Regulation (E0
				oig, male and female): 1,200 mg/kg Test Guideline 401
Acute	inhalation toxicity	:	Assessment: T short term inha	ne component/mixture is moderately toxic al ation.
Acute	dermal toxicity	:	• •	big, male and female): > 2,000 mg/kg Test Guideline 402
				he substance or mixture has no acute derma
Amine	es, C12-14 (even num	nbere	d)-alkyldimethy	rl, N-oxides:
Acute	oral toxicity	:	LD50 (Rat): 1,0	64 mg/kg
Acute	dermal toxicity	:	LD50 (Rat): > 2	,000 mg/kg
Skin d	corrosion/irritation			
Cause	es severe burns.			
Comp	onents:			

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:





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Speci	es	: Rabbit	
Metho		: OECD Test Guideli	ne 404
Resul		: Irritating to skin.	
GLP		: Yes	
0LI		. 105	
2-but	oxyethanol:		
Speci	es	: Rabbit	
Expos	sure time	: 4 h	
Metho	bd	: Regulation (EC) No	. 440/2008, Annex, B.4
Resul	t	: Irritating to skin.	
GLP		: No	
sodiu	ım hydroxide:		
Speci	es	: Rabbit	
Metho		: OECD Test Guideli	ne 435
Resul		: Causes severe bur	
GLP		: No	
Amin	es, C12-14 (even nu	mbered)-alkyldimethyl, N	-oxides:
Speci	es	: Rat	
Resul		: Irritating to skin.	
Serio	us eye damage/eye	irritation	
Cause	us eye damage/eye es serious eye damaç ponents:		
Cause <u>Comp</u>	es serious eye damag ponents:		llts:
Cause <u>Comp</u> Alcoh	es serious eye damag ponents: nols, C12-14, ethoxy	ge.	lts:
Cause <u>Comp</u>	es serious eye damag ponents: nols, C12-14, ethoxy es	ge. Iated, sulfates, sodium sa	
Cause <u>Comp</u> Alcoh Speci	es serious eye damag ponents: nols, C12-14, ethoxy es od	ge. lated, sulfates, sodium sa : Rabbit : OECD Test Guideli	ne 405
Cause Comp Alcoh Speci Metho	es serious eye damag ponents: nols, C12-14, ethoxy es od	ge. lated, sulfates, sodium sa : Rabbit	ne 405
Cause Comp Alcoh Speci Metho Resul GLP	es serious eye damag ponents: nols, C12-14, ethoxy es od	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects	ne 405
Cause Comp Alcoh Speci Metho Resul GLP	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects	ne 405
Cause Comp Alcor Speci Metho Resul GLP 2-but	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No	ne 405 on the eye
Cause Comp Alcor Speci Metho Resul GLP 2-but Speci	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od	ge. lated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli	ne 405 on the eye
Cause Comp Alcoh Speci Metho Resul GLP 2-but Speci Metho	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit	ne 405 on the eye
Cause Comp Alcor Speci Metho GLP 2-but Speci Metho Resul GLP	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t	ge. lated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes.	ne 405 on the eye
Cause Comp Alcoh Speci Metho GLP 2-but Speci Metho Resul GLP sodiu	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t m hydroxide:	ge. lated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes. : Yes	ne 405 on the eye
Cause Comp Alcor Speci Metho Resul GLP 2-but Speci Metho Resul GLP sodiu Speci	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t m hydroxide: es	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes. : Yes : Rabbit	ne 405 on the eye ne 405
Cause Comp Alcor Speci Metho Resul GLP 2-but Speci Metho GLP sodiu Speci Metho	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t m hydroxide: es od	Je. Jated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes. : Yes : Rabbit : OECD Test Guideli	ne 405 on the eye ne 405 ne 405
Cause Comp Alcor Speci Metho Resul GLP 2-but Speci Metho Resul GLP sodiu Speci	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t m hydroxide: es od	ge. Iated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes. : Yes : Rabbit	ne 405 on the eye ne 405 ne 405
Cause Comp Alcoh Speci Metho Resul GLP Speci Metho Resul GLP Speci Metho Resul GLP	es serious eye damag <u>ponents:</u> nols, C12-14, ethoxy es od t oxyethanol: es od t m hydroxide: es od t es, C12-14 (even nu	Je. Jated, sulfates, sodium sa : Rabbit : OECD Test Guideli : Irreversible effects : No : Rabbit : OECD Test Guideli : Irritating to eyes. : Yes : Rabbit : OECD Test Guideli	ne 405 on the eye ne 405 nage to eyes. -oxides:





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Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	Did not cause sensitisation on laboratory animals.
GLP :	No

2-butoxyethanol:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	Does not cause skin sensitisation.
GLP :	Yes

sodium hydroxide:

Species	:	Human
Assessment		Does not cause skin sensitisation.
GLP	:	No

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Genotoxicity in vitro	: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: Yes
	Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation





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			Method: OECD T Result: negative GLP: Yes	est Guideline 476
Genc	otoxicity in vivo	:	Test Type: Cytog Species: mice (m Cell type: Bone m Application Route Method: OECD T Result: negative GLP: Yes	ale and female) aarrow : Oral
2-but	toxyethanol:			
	otoxicity in vitro	:		nonella typhimurium on: with and without metabolic activation est Guideline 471
			Test system: Chir	
			Test system: Chir	o mammalian cell gene mutation test nese hamster ovary cells on: with and without metabolic activation est Guideline 476
Genc	otoxicity in vivo	:	Test Type: Micror Species: Mouse (Cell type: Bone m Application Route Method: OECD T Result: negative GLP: No informat	male) arrow : Intraperitoneal injection est Guideline 474
			Test Type: Micror Species: Rat (ma Cell type: Bone m Application Route Method: OECD T Result: negative GLP: No informat	le) arrow : Intraperitoneal injection est Guideline 474



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sodium	n hydroxide:		
	xicity in vitro	Metabolic act	Salmonella typhimurium ivation: with and without metabolic activation CD Test Guideline 471
Genoto	xicity in vivo	Species: Mou Application R	oute: Intraperitoneal D Test Guideline 474
	ogenicity ssified due to lack o	ⁱ data.	
<u>Compo</u>	onents:		
2-buto	kyethanol:		
Exposu Dose Frequer NOAEC Method Result GLP	tion Route re time ncy of Treatment	 5 days/week > 125 ppm OECD Test 0 negative No information 	pour) 5 parts per million Guideline 451 n available.
Exposu Dose	tion Route re time ncy of Treatment	 Mouse, male inhalation (va 2 Years 62,5 - 125 - 2 5 days/week 125 ppm OECD Test 0 equivocal No information 	pour) 50 parts per million Guideline 451
-	luctive toxicity ssified due to lack o	data.	
<u>Compo</u>	onents:		
Alcoho	ls, C12-14, ethoxy	ated, sulfates, sodi	um salts:
Effects	on fertility	Species: Rat Application R Dose: 0 - 30 General Toxi	wo-generation study male and female oute: Oral - 100 milligram per kilogram city - Parent: NOAEL: >= 300 mg/kg body weig city F1: NOAEL: >= 300 mg/kg body weight
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		Fertility: NOAE Early Embryor weight Method: OECI	ity F2: NOAEL: >= 300 mg/kg body weight EL: >= 300 mg/kg body weight nic Development: NOAEL: >= 300 mg/kg body D Test Guideline 416 ects on fertility and early embryonic develop- ected.
Effec ment	ts on foetal develop-	Species: Rat, f Application Ro Dose: 0 - 100 General Toxic weight Teratogenicity Developmenta	oute: Oral - 300 milligram per kilogram ity Maternal: NOAEL: >= 1,000 mg/kg body : NOAEL: >= 1,000 mg/kg body weight I Toxicity: NOAEL: >= 1,000 mg/kg body weight D Test Guideline 414
2-but	toxyethanol:		
	ts on fertility	Species: Mous Application Ro Dose: 720 - 13 General Toxic Fertility: NOAE	o-generation study se, male and female oute: Oral 340 - 2050 milligram per kilogram ity - Parent: NOAEL: 720 mg/kg bw/day EL: 720 mg/kg bw/day nic Development: NOAEL: 720 mg/kg bw/day
Effec ment	ts on foetal develop-	General Toxic Developmenta Method: OECI Result: Embry spring were de	female
		Dose: 25 - 50 Frequency of General Toxic Developmenta Method: OECI	bit, female pute: inhalation (vapour) - 100 - 200 parts per million Treatment: 6 hours/day ity Maternal: NOAEC: 100 ppm I Toxicity: NOAEC: 100 ppm D Test Guideline 414 otoxic effects and adverse effects on the off-





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		spring were detec GLP: No informat	cted only at high maternally toxic doses ion available.
		Dose: 25 - 50 - 10 Frequency of Tre General Toxicity I Developmental To Method: OECD T Result: Embryoto	nale e: inhalation (vapour) D0 - 200 parts per million atment: 6 hours/day Waternal: NOAEC: 50 ppm oxicity: NOAEC: 50 ppm est Guideline 414 xic effects and adverse effects on the off- cted only at high maternally toxic doses
)T - single exposure classified due to lack of da	ata.	
)T - repeated exposure classified due to lack of da	ata.	
Rep	eated dose toxicity		
<u>Con</u>	nponents:		
Alco	ohols, C12-14, ethoxylat	ed, sulfates, sodium	salts:
Expo Num Dos Metł GLP	AEL lication Route osure time hber of exposures e nod	 Rat, male and fer >= 225 mg/kg Oral 90 d daily 0 - 25 - 75 OECD Test Guide Yes Subchronic toxicit 	eline 408
2-bı	itoxyethanol:		
Spe LOA App Expo Num Dos Mett GLP	cies NEL lication Route osure time ober of exposures e hod	 Rat, male and fer 750 ppm Oral 90 d Continuous 750-1500-3000-4 OECD Test Guide Yes Subchronic toxicit 	500-6000 parts per million eline 408
		: Rat, male : 62.5 ppm : Inhalation : vapour	





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	od	: 90 d : 5 days/week : 31 - 62,5 - 125 j : OECD Test Gui : Yes : Subchronic toxio	deline 413
Test Expo	EC cation Route atmosphere sure time ber of exposures od	 Rat, female < 31 ppm Inhalation vapour 90 d 5 days/week 31 - 62,5 - 125 µ OECD Test Gui Yes Subchronic toxid 	deline 413
Expo	EL cation Route sure time ber of exposures od	 Rabbit, male an >= 150 mg/kg Dermal 90 d 5 days/week 10 - 50 - 150 mg OECD Test Gui Yes Subchronic toxic 	g/kg bw/day deline 411
•	ration toxicity classified due to lack of	data.	
Furth	ner information		
<u>Prod</u> Rem		: No data availab	le

SECTION 12: Ecological information

12.1 Toxicity

Components:	
Alcohols, C12-14, etho	oxylated, sulfates, sodium salts:
Toxicity to fish	 LC50 (Danio rerio (zebra fish)): 7.1 mg/l Exposure time: 96 h Analytical monitoring: Yes Method: OECD Test Guideline 203 GLP: Yes Remarks: Fresh water





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	city to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Analytical monitor Method: OECD To GLP: Yes Remarks: Fresh v	ing: Yes est Guideline 202
Toxi plan	city to algae/aquatic ts	:	ErC50 (Desmode End point: Growth Exposure time: 72 Analytical monitor Method: OECD To GLP: Yes Remarks: Fresh v	2 h ing: Yes est Guideline 201
			NOEC (Desmode End point: Growth Exposure time: 72 Analytical monitor Method: OECD To GLP: Yes Remarks: Fresh v	2 h ing: Yes est Guideline 201
Toxi	city to microorganisms	:	EC10 (Pseudomo End point: Growth Exposure time: 16 Analytical monitor Method: DIN 38 4 GLP: Yes	ን h ing: No
Toxi icity)	city to fish (Chronic tox-	:	NOEC: 0.14 mg/l Exposure time: 28 Species: Oncorhy Analytical monitor Method: OECD To GLP: Yes	nchus mykiss (rainbow trout) ing: Yes
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Analytical monitor Method: OECD To GLP: No Remarks: Fresh v	magna (Water flea) ing: Yes est Guideline 211
2-bu	itoxyethanol:			
Тохі	city to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: static t Analytical monitor	est
			19 / 29	





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			Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	vater
	y to daphnia and other invertebrates	:	EC50 (Daphnia m End point: Immob Exposure time: 48 Test Type: static t Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	8 h est ing: Yes est Guideline 202 <i>v</i> ater
Toxicit <u></u> plants	y to algae/aquatic	:	ErC50 (Raphidoce 1,840 mg/l End point: Growth Exposure time: 72 Test Type: static t Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	? h est ing: Yes est Guideline 201 <i>v</i> ater
			EC10 (Raphidoce mg/l End point: Growth Exposure time: 72 Test Type: static t Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	? h est ing: Yes est Guideline 201 <i>v</i> ater
			NOEC (Raphidoca 286 mg/l End point: Growth Exposure time: 72 Test Type: static t Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	? h est ing: Yes est Guideline 201 <i>v</i> ater
Toxicity	y to fish (Chronic tox-	:	NOEC: > 100 mg/ Exposure time: 21 Species: Danio re Test Type: semi-s	d rio (zebra fish)

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Versio 1.1	on	Revision Date: 07.06.2024	-	9S Number: 3000024076	Date of last issue: 27.05.2024 Country / Language: GB / 6N (EN)
				Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	est Guideline 204 vater
a	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	EC10: 134 mg/l End point: Reprod Exposure time: 21 Species: Daphnia Test Type: semi-s Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	d magna (Water flea) tatic test ing: Yes est Guideline 211 vater
				NOEC: 100 mg/l End point: Reprod Exposure time: 21 Species: Daphnia Test Type: semi-s Analytical monitor Method: OECD Te GLP: No Remarks: Fresh w nominal concentra	d magna (Water flea) tatic test ing: Yes est Guideline 211 vater
	odium	n hydroxide:			
		to fish	:	LC50 (Trout): 45.4 Exposure time: 96	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l bh
E	Ecotox	icology Assessment			
		quatic toxicity	:	This product has r	no known ecotoxicological effects.
C	Chronic	aquatic toxicity	:	This product has r	no known ecotoxicological effects.
ļ	Amines, C12-14 (even numb		ere	d)-alkyldimethyl, l	N-oxides:
		to fish	:	LC50 (Fish): 2.67 Exposure time: 96	- 3.49 mg/l
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 3.1 mg/l s h
				NOEC (Daphnia n Exposure time: 28	nagna (Water flea)): 0.7 mg/l 3 d
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	Toxicity to algae/aquatic plants		: EC50 (algae): 0.14 mg/l Exposure time: 72 h					
			NOEC (algae): 0.7 mg/l Exposure time: 28 d					
M-Fa icity)	ctor (Acute aquatic tox-	:	1					
12.2 Persi	istence and degradabi	lity						
Com	ponents:							
Alcol	hols, C12-14, ethoxylat	ed.	sulfates, sodium	salts:				
	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	iodegradable. 100 %				
2-but	oxyethanol:							
	egradability	:	Test Type: aerob Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T GLP: No	iodegradable. 90.4 %				
sodiı	um hydroxide:							
	egradability	:		ethods for determining biodegradability are inorganic substances.				
12.3 Bioa	ccumulative potential							
Com	ponents:							
Alcol	hols, C12-14, ethoxylat	ed,	sulfates, sodium	salts:				
	ccumulation	:	Remarks: Due to	the distribution coefficient n-octanol/water, organisms is not expected.				
	ion coefficient: n- ol/water	:	log Pow: 0.3 (23 pH: 6.1 Method: OECD T	°C) ēst Guideline 123				
2-but	oxyethanol:							
	cumulation	:		the distribution coefficient n-octanol/water, organisms is not expected.				
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Partition coefficient: n- octanol/water		:	log Pow: 0.81 (25 Method: OECD T	⁵ °C) est Guideline 107	
12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB a		a available	sse	ssment	
	Produ	ct:			
	Assess		:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6	6 Other	adverse effects			
	<u>Produc</u>	<u>ot:</u>			
	Endocr tial	ine disrupting poten-	:	ered to have end	ixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).
	Additio mation	nal ecological infor-	:		hazard cannot be excluded in the event of andling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product The generation of waste should be avoided or minimised : wherever possible. Where possible recycling is preferred to disposal or incineration. Wastedisposal should be in accordance with existing federal state, provincial and or local environmental controls Dispose of as hazardous waste in compliance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil. Dispose of wastes in an approved waste disposal facility. Contaminated packaging Empty remaining contents. 1 Dispose of as unused product. Empty containers retain residue and can be dangerous. Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.





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SECTION 14: Transport information

14.1 UN number

ADN	:	UN 1824
ADR	:	UN 1824
RID	:	UN 1824
IMDG	:	UN 1824
ΙΑΤΑ	:	UN 1824
14.2 UN proper shipping name		
ADN	:	SODIUM HYDROXIDE SOLUTION
ADR	:	SODIUM HYDROXIDE SOLUTION
RID	:	SODIUM HYDROXIDE SOLUTION
IMDG	:	SODIUM HYDROXIDE SOLUTION
ΙΑΤΑ	:	Sodium hydroxide solution
14.3 Transport hazard class(es)		
ADN		8

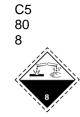
14

ADN	:	8
ADR	:	8
RID	:	8
IMDG	:	8
ΙΑΤΑ	:	8

14.4 Packing group

ADN

Packing group	:	
Classification Code	:	
Hazard Identification Number	:	
Labels	:	



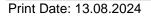
Ш

ADR		
Packing group	:	Ш
Classification Code	:	C5
Hazard Identification Number	:	80
Labels	:	8

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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			:	8		
F	RID	restriction code	:	(E)		
C F	Classifi	g group cation Code Identification Number	:	III C5 80 8		
F	MDG Packino _abels	g group	::	III 8 ***		
E	EmS C	ode	:	F-A, S-B		
F a F	aircraft	g instruction (cargo	:	856 : 60.00 L III 8 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
F G F	Packing ger airc	Passenger) g instruction (passen- raft) g group	:	852 : 5.00 L III 8		
14.5 E	Enviro	nmental hazards				
	ADN Environ	mentally hazardous	:	no		







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ADR Enviro	onmentally hazardous	:	no	
RID Enviro	onmentally hazardous	:	no	
IMDG Marin	i e pollutant	:	no	
14.6 Special precautions for use Hazard and Handling Notes.			Slightly corrosive	

Hazard and Handling Notes.

Keep away from foodstuffs, acids and alkalis.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- ain)	:	Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.	:	Neither banned nor restricted
Council Regulation (EC) No 273/2004 on drug precursors	:	Not applicable
UK REACH List of substances subject to authorisation	:	Not applicable
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(Anne	(Annex XIV)								
	GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation								
Control of Major Accident Hazards Regulations 2015 (COMAH)									

Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H411 : H412 :	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.			
Full text of other abbreviations				
Acute Tox. :	Acute toxicity			
Aquatic Acute :	Short-term (acute) aquatic hazard			
Aquatic Chronic :	Long-term (chronic) aquatic hazard			
Eye Dam. :	Serious eye damage			
Eye Irrit. :	,			
	Corrosive to metals			
Skin Corr. :	Skin corrosion			
Skin Irrit. :	Skin irritation			
2000/39/EC :	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values			
GB EH40 :	UK. EH40 WEL - Workplace Exposure Limits			





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2000/39/EC / TWA : Limit Va 2000/39/EC / STEL : Short te GB EH40 / TWA : Long-te		: Limit Value - ei : Short term expo : Long-term expo	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Skin Corr. 1	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any





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warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

