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SECTION	N 1: Identification of	the substance/mi	xture and of the company/underta	aking
1.1 Produ	ict identifier			
Trade	e name	: ANDEROL FG	H 15	
1.2 Releva	ant identified uses of	the substance or m	xture and uses advised against	
	of the Sub- e/Mixture	: Lubricant		
Reco on us	mmended restrictions	: Restricted to p	ofessional users.	
	s of the supplier of the	-		
Com	pany:		tschland GmbH chnology, Safety & Environment	
		Manufacturer Anderol Specia Groot Egtenra 5928 PA Venl Netherlands Telephone : +3	seweg 23	
Prepa	ared by	Production, Te +49221888522	chnology, Safety & Environment 88	
		Further information for the formation of	ation for the safety data sheet : in- s.com	
1.4 Emerç	gency telephone numb	per		
	20 3885 0382 (CCN10017 n Information Centre telep		2 1212	

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)							
Hazard pictograms :							
Signal word :	Danger						
Hazard statements :	H304 May be fatal if swallowed and enters airways.						
Precautionary statements :	Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting.						
	Storage:						
	P405 Store locked up.						
	Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.						

Hazardous components which must be listed on the label:

Dec-1-ene, trimers, hydrogenated Dec-1-ene, dimers, hydrogenated

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Dec-1-ene, trimers, hydrogenated	157707-86-3	Asp. Tox. 1; H304	>= 70 - < 90
	500-393-3	-	
	01-2119493949-12-		
	XXXX		
Dec-1-ene, dimers, hydrogenated	68649-11-6	Asp. Tox. 1; H304	>= 1 - < 10
	500-228-5	Acute Tox. 4; H332	
	01-2119493069-28-		
	XXXX		
Benzenamine, N-phenyl-, reaction	68411-46-1	Repr. 2; H361f	>= 0.1 - < 1
products with 2,4,4-	270-128-1		
trimethylpentene	01-2119491299-23-		
	0002		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: No hazards which require special first aid measures.
If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	 Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
If swallowed	: Clean mouth with water and drink afterwards plenty of water Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons

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			Information Ser	vice.
SECTION	N 5: Firefighting meas	sur	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:		ng measures that are appropriate to local cir- d the surrounding environment.
5.2 Speci	al hazards arising from	the	e substance or r	nixture
Spec fightir		:	Do not allow run courses.	n-off from fire fighting to enter drains or water
5.3 Advic	e for firefighters			
	ial protective equipment efighters	:	In the event of t	fire, wear self-contained breathing apparatus
Furth	er information	:	Standard proce	dure for chemical fires.
	nal precautions, protectional precautions	tive:		d emergency procedures rotective equipment.
6.2 Enviro	onmental precautions			
	onmental precautions	:	No special envi	ronmental precautions required.
			If the product correspective auth	ontaminates rivers and lakes or drains inform orities.
6.3 Metho	ods and material for co	ntai	nment and clea	ning up
Meth	ods for cleaning up	:		osorbent material (e.g. cloth, fleece). e, closed containers for disposal.
6.4 Refere	ence to other sections			
SECTION	N 7: Handling and sto	oraç	je	
7.1 Preca	utions for safe handlin	q		
	e on safe handling	:	For personal pr	otection see section 8.

Advice on safe handling	:	For personal protection see section 8. No special handling advice required.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice.

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7.2 Cor	ditions for safe storage,	incl	uding any incom	patibilities
	quirements for storage as and containers	:	Keep container tig place.	ghtly closed in a dry and well-ventilated
Ad	vice on common storage	:	No special restric	tions on storage with other products.
	rther information on stor- e stability	:	No decomposition	n if stored and applied as directed.
7.3 Spe	cific end use(s)			

Specific use(s)	: Raw material for industry
-----------------	-----------------------------

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Dec-1-ene, dimers, hydrogenated	Workers	Inhalation	Acute systemic ef- fects	60 mg/m3
Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene	Workers	Dermal	Long-term systemic effects	0.62 mg/kg
	Workers	Inhalation	Long-term systemic effects, Systemic effects	4.37 mg/m3
	General expo- sures	Skin contact	Chronic effects, Sys- temic effects	0.31 mg/kg
	General expo- sures	Inhalation	Chronic effects, Sys- temic effects	1.09 mg/m3
	General expo- sures	Ingestion	Chronic effects, Sys- temic effects	0.31 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzenamine, N-phenyl-, reac- tion products with 2,4,4- trimethylpentene	Fresh water	0.051 mg/l
	Marine water	0.0051 mg/l
	Fresh water sediment	9320 mg/kg
	Marine sediment	932 mg/kg
	Soil	1860 mg/kg
	STP	1 mg/l

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system

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Ensu	re that eyewash stations	s and	d safety showers ar	e close to the workstation location.
Pers	onal protective equipm	nent		
Eye p	protection	:	Safety glasses	
Hand	I protection			
R	emarks	:	For prolonged or	repeated contact use protective gloves.
Skin	and body protection	:	Protective suit	
Resp	iratory protection	:	No personal respi quired.	ratory protective equipment normally re-
				pray or aerosol exposure wear suitable per- protection and protective suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	210 °C Method: ASTM D 92
Auto-ignition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	14.7 mm2/s (40 °C)
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available

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Partition coefficient: n- octanol/water		: No data availa	: No data available				
Va	pour pressure	: No data availa	: No data available				
Re	lative density	: No data availa	: No data available				
De	nsity	: 0.818 g/cm3 (: 0.818 g/cm3 (15 °C)				
Re	lative vapour density	: No data availa	ble				
9.2 Oth	er information						
Ev	aporation rate	: No data availa	: No data available				
Ox	idizing potential	: No information	available.				

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No hazards to be specially mentioned	d.
---------------------	----------------------------------------	----

10.4 Conditions to avoid

Conditions to avoid

: Exposure to moisture Contamination

10.5 Incompatible materials

Materials to avoid : Stro	ng acids and oxidizing agents
---------------------------	-------------------------------

10.6 Hazardous decomposition products

Hazardous decomposition : Carbon oxides products

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Remarks: Not classified due to lack of data.

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Acute	e inhalation toxicity	Те	ute toxicity est st atmosphere thod: Calculat	
		Re	marks: Not cla	ssified due to lack of data.
Acute	e dermal toxicity	: Re	marks: Not cla	ssified due to lack of data.
Com	ponents:			
Dec-1	1-ene, trimers, hydro	genated:		
Acute	e dermal toxicity	: LD	50 (Rat): > 2,0	00 mg/kg
Dec-1	1-ene, dimers, hydro	genated:		
Acute	e oral toxicity	: LD	50 (Rat, male	and female): > 5,000 mg/kg
Acute	inhalation toxicity	Ex Te Me	posure time: 4 st atmosphere	
Acute	e dermal toxicity	Me GL As tox	thod: OECD T P: yes sessment: The icity	and female): > 2,000 mg/kg est Guideline 402 substance or mixture has no acute dermal rtality observed at this dose.
Benz	enamine, N-phenyl-,	reaction	products with	2,4,4-trimethylpentene:
	e oral toxicity	: LD	50 (Rat): > 5,0	
Acute	e dermal toxicity	As tox	icity	00 mg/kg substance or mixture has no acute dermal rtality observed at this dose.
Skin	corrosion/irritation			
Prod	uct:			
Rema				classification criteria of the European Union, considered as being a skin irritant.
Com	ponents:			
Dec-1	1-ene, dimers, hydro	genated:		
Speci Resu			bbit skin irritation	

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Specie Methoo Result Seriou <u>Produc</u> Remar	is is eye damage/eye irr <u>ct:</u>	:	Rabbit OECD-Guidelii Mild skin irritati	
Method Result Seriou Produc Remar	d Is eye damage/eye irr <u>ct:</u>	: : ritati	OECD-Guidelin Mild skin irritat	
Result Seriou Produc Remar	ıs eye damage/eye irr <u>ct:</u>	ritati	Mild skin irritati	
Seriou <u>Produa</u> Remar	ıs eye damage/eye irı <u>ct:</u>	: ritati		on
<u>Produ</u> Remar	<u>ct:</u>	ritati	on	
Remar				
	ks			
<u>Comp</u>		•		ne classification criteria of the European Un not considered as being an eye irritant.
	onents:			
Dec-1-	ene, dimers, hydroge	enat	ed:	
Specie	S	:	Rabbit	
Result		:	No eye irritatio	n
Benze	namine, N-phenyl-, re	eact	ion products w	ith 2,4,4-trimethylpentene:
Specie	S	:	Rabbit	
Method	b	:	OECD Test Gu	uideline 405
Result		:	No eye irritatio	n
Respir	atory or skin sensitis	satic	on	
<u>Produ</u>	<u>ct:</u>			
Remar	ks	:	Not classified of	due to lack of data.
<u>Comp</u>	onents:			
Benze	namine, N-phenyl-, re	eact	ion products w	ith 2,4,4-trimethylpentene:
Specie	S	:	Guinea pig	
Assess Method		:	Did not cause OECD Test Gu	sensitisation on laboratory animals. iideline 406
Germ	cell mutagenicity			
Produ				
	cell mutagenicity- As-		Not classified	tue to lack of data
sessm	• •	•	Not classified (
<u>Comp</u>	onents:			
Benze	namine, N-phenyl-, re	eact	ion products w	ith 2,4,4-trimethylpentene:
Germ o sessmo	cell mutagenicity- As- ent	:	Not mutagenic	in Ames Test
Carcin	ogenicity			
<u>Produ</u>	ct:			

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Carci ment	nogenicity - Assess-	: Not classified	due to lack of data.
Repr	oductive toxicity		
Prod	uct:		
Repro sessr	oductive toxicity - As- nent	: Not classified	due to lack of data.
<u>Com</u>	ponents:		
Benz	enamine, N-phenyl-, r	eaction products w	vith 2,4,4-trimethylpentene:
Effect	ts on fertility	Species: Rat, Application Ro Dose: 25-75-2 General Toxic Fertility: NOEL Method: OEC	rtility/early embryonic development male and female oute: Oral 225 milligram per kilogram ity - Parent: NOAEL: 25 mg/kg bw/day .: 225 mg/kg bw/day D Test Guideline 422 I testing did not show any effects on fertility.
		Species: Rat, Strain: wistar Application Ro Dose: 0-200-6 Method: OECI Result: Some based on anim	rtility/early embryonic development male and female oute: Ingestion 500-1800 parts per million D Test Guideline 443 evidence of adverse effects on development, nal experiments. mation available.
Effect ment	ts on foetal develop-	Species: Rabb Application Ro Dose: 10-30-1 General Toxic Teratogenicity Developmenta Method: OECI Result: Embry	
		Species: Rat, Application Ro Dose: 50-150- General Toxic Teratogenicity Developmenta	oute: Oral 500 milligram per kilogram ity Maternal: NOAEL: 150 mg/kg bw/day : NOAEL: 500 mg/kg bw/day al Toxicity: NOAEL: 500 mg/kg body weight D Test Guideline 414

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		GLP: yes	i
Repro sessn	oductive toxicity - As- nent		idence of adverse effects on sexual function and ased on animal experiments.
STOT	- single exposure		
<u>Produ</u>	uct:		
	ssment	: Not class	ified due to lack of data.
STOT	- repeated exposure		
Produ	uct:		
	ssment	: Not class	ified due to lack of data.
Aspir	ation toxicity		
Comi	oonents:		
-			
	l-ene, trimers, hydrog		
May b	be fatal if swallowed an	d enters airway	S.
Dec-1	l-ene, dimers, hydrog	enated:	
May t	be fatal if swallowed an	d enters airway	'S.
May t	be fatal if swallowed an	d enters airway	S.
	be fatal if swallowed an mation on other haza		S.
1.2 Infor		ds	S.
1.2 Infori Endo	mation on other haza crine disrupting prop	ds	S.
1.2 Infori Endo <u>Produ</u>	mation on other haza crine disrupting prop	rds erties : The subs ered to h REACH (EU) 201	stance/mixture does not contain components consic ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation
1.2 Infor Endo <u>Produ</u> Asses	mation on other haza crine disrupting prop <u>uct:</u>	rds erties : The subs ered to h REACH (EU) 201	stance/mixture does not contain components consic ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a
1.2 Infor Endo <u>Produ</u> Asses	mation on other hazan crine disrupting prop <u>uct:</u> assment er information	rds erties : The subs ered to h REACH (EU) 201	stance/mixture does not contain components consic ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a
1.2 Inform Endo <u>Produ</u> Asses Furth <u>Produ</u>	mation on other hazan crine disrupting prop <u>uct:</u> ssment er information <u>uct:</u>	rds erties : The subs ered to h REACH (EU) 201 levels of	stance/mixture does not contain components consid ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a 0.1% or higher.
1.2 Infor Endo <u>Produ</u> Asses	mation on other hazan crine disrupting prop <u>uct:</u> ssment er information <u>uct:</u>	rds erties : The subs ered to h REACH (EU) 201	stance/mixture does not contain components consid ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a 0.1% or higher.
1.2 Inform Endo Produ Asses Furth <u>Produ</u> Rema	mation on other hazan crine disrupting prop <u>uct:</u> ssment er information <u>uct:</u> arks	rds erties : The subs ered to h REACH (EU) 201 levels of : No data	stance/mixture does not contain components consid ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a 0.1% or higher.
1.2 Inform Endo Produ Asses Furth <u>Produ</u> Rema	mation on other hazan crine disrupting prop <u>uct:</u> ssment er information <u>uct:</u>	rds erties : The subs ered to h REACH (EU) 201 levels of : No data	stance/mixture does not contain components consid ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a 0.1% or higher.
1.2 Inform Endo <u>Produ</u> Asses Furth <u>Produ</u> Rema	mation on other hazan crine disrupting prop <u>uct:</u> ssment er information <u>uct:</u> arks	rds erties : The subs ered to h REACH (EU) 201 levels of : No data	stance/mixture does not contain components consid ave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 7/2100 or Commission Regulation (EU) 2018/605 a 0.1% or higher.

Product.		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other	:	Remarks: No data available

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aqua	tic invertebrates			
<u>Com</u>	ponents:			
		eacti	-	2,4,4-trimethylpentene:
Toxic	ity to fish	:	End point: mortal Exposure time: 9 Test Type: static Analytical monito	6 h test ring: yes Test Guideline 203
	ity to daphnia and other tic invertebrates	:	End point: Immol Exposure time: 4 Test Type: static Analytical monito	8 h test ring: yes ⁻ est Guideline 202
Toxic plant	ity to algae/aquatic s	:	mg/l End point: Growt Exposure time: 7 Test Type: static Analytical monito	2 h test ring: no Test Guideline 201
	ity to daphnia and other tic invertebrates (Chron- icity)		Analytical monito	a magna (Water flea) ring: no ēst Guideline 211
Ecot	oxicology Assessment	t		
Chro	nic aquatic toxicity	:	No toxicity at the ecotoxicological	limit of solubility, This product has no known effects.
12.2 Pers	istence and degradabi	lity		
<u>Prod</u> Biode	uct: egradability	:	Result: No data a	available

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<u>Com</u>	ponents:							
Benze	enamine, N-phenyl-, r	eact	ion products witl	n 2,4,4-trimethylpentene:				
Biode	gradability	:	: Result: According to the results of tests of biodegradability the product is not readily biodegradable. Method: CO2 Evolution Test					
12.3 Bioa	ccumulative potential							
Produ	uct:							
Bioac	cumulation	:	Remarks: No da	ta available				
Com	ponents:							
Benz	enamine, N-phenyl-, r	eact	ion products witl	n 2,4,4-trimethylpentene:				
	ion coefficient: n- ol/water	:	log Pow: > 7					
12.4 Mobi	lity in soil							
Produ	uct:							
Mobili	ity	:	Remarks: No da	ta available				
12.5 Resu	ilts of PBT and vPvB a	isse	ssment					
Produ	uct:							
	ssment	:	to be either pers	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of				
12.6 Endo	ocrine disrupting prop	ertie	es					
Produ	uct:							
Asses	ssment	:	ered to have end REACH Article 5	hixture does not contain components consid- locrine disrupting properties according to (7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.				
12.7 Othe	r adverse effects							
Produ	uct:							
	ional ecological infor-	:	There is no data	available for this product.				

13.1 Waste treatment methods

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Produ	ct	: Offer surplus an posal company.	d non-recyclable solutions to a licensed dis-	
Contaminated packaging		Empty containe	: Empty remaining contents. Empty containers should be taken to an approved waste han- dling site for recycling or disposal.	

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	 This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation	: Not applicable

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p C	eveso III: Directive 201 ean Parliament and of to ontrol of major-accidentiangerous substances.	the Council on the	e	Not applicable
т	he components of thi	s product are re	eported in t	the following inventories:
	SL	-	-	f this product are on the Canadian DSL
A	ICS	: On the	e inventory,	or in compliance with the inventory
Ν	ZIoC	: Not in	compliance	e with the inventory
E	NCS	: On the	e inventory,	or in compliance with the inventory
к	ECI	: On the	e inventory,	or in compliance with the inventory
Р	ICCS	: On the	e inventory,	or in compliance with the inventory
IE	ECSC	: On the	e inventory,	or in compliance with the inventory
Т	CSI	: On the	e inventory,	or in compliance with the inventory
U	S.TSCA	: Substa	ance(s) not	listed on TSCA inventory

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

SECTION 16: Other information

Full text of H-Statem	ents	
H304 H332		May be fatal if swallowed and enters airways. Harmful if inhaled.
H361f		Suspected of damaging fertility.
Full text of other abb	reviations	
Acute Tox. Asp. Tox.		Acute toxicity Aspiration hazard

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Repr.

: Reproductive toxicity

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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further informationClassification of the mixture:Classification procedure:Asp. Tox. 1H304Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DK / EN

ES 1	Use at industrial sites; Industrial use; Lubricant.
ES 2	Widespread use by professional workers; Professional use; Lubricant.

according to Regulation (EC) No. 1907/2006

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ES 1: Use at industrial sites; Industrial use; Lubricant.

1.1. Title section

Exposure Scenario name	: Lubricant, Industrial use
Structured Short Title	: Use at industrial sites; Industrial use; Lubricant.

Environment

CS 1	Industrial use of processing aids in processes and products, not be- coming part of articles, Industrial use of substances in closed systems	ERC4, ERC7
Worker		
CS 2	no sampling, General exposures (closed systems)	PROC1, CS57, CS15
CS 3	with sample collection, General exposures (closed systems)	PROC3, CS56, CS15
CS 4	Storage, General exposures (open systems), With potential for aerosol generation, Remanufacture of reject articles	PROC4, CS67, CS16, CS138, CS19
CS 5	Without Local Exhaust Ventilation, Spraying, With Local Exhaust Venti- lation	PROC7,,
CS 6	Storage, Bulk transfers, Filling/ preparation of equipment from drums or containers., Manual, Maintenance (of larger plant items) and machine set up, Elevated temperature	PROC8a, CS67, CS14, CS45, CS34, CS77, CS111
CS 7	Storage, Bulk transfers, Filling/ preparation of equipment from drums or containers., Machine, Maintenance (of larger plant items) and machine set up, Elevated temperature	PROC8b, CS67, CS14, CS45, CS33, CS77, CS111
CS 8	Storage, Maintenance of small items, Initial factory fill of equipment	PROC9, CS67, CS18, CS75
CS 9	Rolling, Brushing	PROC10
CS 10	Treatment by dipping and pouring	PROC13
CS 11	With potential for aerosol generation, Operation and lubrication of high energy open equipment	PROC17, CS138, CS17
CS 12	Use in closed, continuous process with occasional controlled exposure, Operation and lubrication of high energy open equipment	PROC18, PROC2, CS17

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1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Industrial use of processing aids in processes and products, not becoming part of articles (ERC4) / Industrial use of substances in closed systems (ERC7)

Product (article) characteristics			
Covers the percentage of the substa	nce in the product up to 100 % (unless stated differently).		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in arti	cles), frequency and duration of use/exposure		
Not applicable	:		
Technical and organisational cond	litions and measures		
Bund storage facilities to prevent soil and water pollution in the event of spillage.			
Conditions and measures related	to sewage treatment plant		
STP type	: No specific measures identified.		
Conditions and measures related	to treatment of waste (including article waste)		
Waste treatment	: External recovery and recycling of waste should comply with applicable local and/or national regulations.		
Other conditions affecting enviror	mental exposure		
Local freshwater dilution factor	: 10		
Local marine water dilution factor	: 100		
No toxicity at the limit of solubility			

1.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / no sampling (CS57) / General exposures (closed systems) (CS15)

Product (article) characteristics			
Covers the percentage of the substance in the product up to 100 % (unless stated differently).			
Physical form of product	:	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in arti	icles), frequency and duration of use/exposure	
Use frequency	:	Covers daily exposures up to 8 hours (unless stated different-	

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		ly).	
Not applic	cable		
Technica	al and organisational	conditions and meas	sures
Handle su	ubstance within a clos	ed system.	
Clear spil	ls immediately.		
Avoid spla Clean equ	ashing. uipment and the work	area every day.	
Conditio	ns and measures rel	ated to personal prot	ection, hygiene and health evaluation
	emically resistant glove		combination with specific activity training.
Other co	nditions affecting wo	orkers exposure	
Assumes a good basic standard of occupational hygiene is implemented			
Assumes use at not more than 20°C above ambient temperature.			
Addition	al good practice adv	ice. Obligations acco	rding to Article 37(4) of REACH do not apply
		nable the derivation of a sign of the second s	a DNEL for dermal irritant effects. an health.
			atch process (synthesis or formulation) exposures (closed systems) (CS15)
Product	(article) characterist	cs	

Covers the percentage of the substance	e in the product up to 100 % (unless stated differently).
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in article	s), frequency and duration of use/exposure
Use frequency :	Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational condition	ons and measures
Ensure samples are obtained under cor Handle substance within a closed syste	
Clear spills immediately.	
Avoid splashing.	

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Clean equipment and the work area every day.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented

Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

1.2.4. Control of worker exposure: Use in batch and other process (synthesis) where opportunity for exposure arises (PROC4) / Storage (CS67) / General exposures (open systems) (CS16) / With potential for aerosol generation (CS138) / Remanufacture of reject articles (CS19)

Product (article) characteristics		
Covers the percentage of the substa	ance in the product up to 100 % (unless stated differently).	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in art	icles), frequency and duration of use/exposure	
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).	
Not applicable		
Technical and organisational con	ditions and measures	
Ensure samples are obtained under Formulate in enclosed or ventilated Transfer via enclosed lines.		
Clear spills immediately.		
Avoid splashing. Clean equipment and the work area	every day.	
Conditions and measures related	to personal protection, hygiene and health evaluation	
Protective gloves complying with EN	1374.	
Other conditions affecting worke	's exposure	

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Assumes a good basic standard of occupational hygiene is implemented

Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Retain drain downs in sealed storage pending disposal or for subsequent recycle. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

1.2.5. Control of worker exposure: Industrial spraying (PROC7) / Without Local Exhaust Ventilation () / With Local Exhaust Ventilation ()

Product (article) characterist	lics
Covers the percentage of the s	substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained i	n articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisationa	I conditions and measures
Apply within a vented cab supp >20.	blied with filtered air under positive pressure and with a protection factor of
Clear spills immediately.	
Avoid splashing. Clean equipment and the work	area every day.
Conditions and measures re	lated to personal protection, hygiene and health evaluation
Change filter cartridge on resp When spraying without ventilat Wear a respirator conforming t	
Wear suitable gloves tested to	EN374.
Other conditions affecting w	orkers exposure
Assumes a good basic standa	rd of occupational hygiene is implemented
Assumes use at not more than	20°C above ambient temperature.
Additional good practice adv	vice. Obligations according to Article 37(4) of REACH do not apply
Available hazard data do not e	nable the derivation of a DNEL for dermal irritant effects

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

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A quantitative risk assessment is not required for human health.

1.2.6. Control of worker exposure: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities (PROC8a) / Storage (CS67) / Bulk transfers (CS14) / Filling/ preparation of equipment from drums or containers. (CS45) / Manual (CS34) / Maintenance (of larger plant items) and machine set up (CS77) / Elevated temperature (CS111)

Product (article) characteristic	s
Covers the percentage of the su	bstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational	conditions and measures
	nder containment or extract ventilation. terial transfer points and other openings. pupling.
Use drum pumps.	
Clear spills immediately.	
Avoid splashing. Clean equipment and the work a	area every day.
Conditions and measures rela	ted to personal protection, hygiene and health evaluation
Wear suitable coveralls to preve	nt exposure to the skin.
Other conditions affecting wo	rkers exposure
Assumes a good basic standard	of occupational hygiene is implemented
Additional good practice advid	ce. Obligations according to Article 37(4) of REACH do not apply
	able the derivation of a DNEL for dermal irritant effects.

1.2.7. Control of worker exposure: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities (PROC8b) / Storage (CS67) / Bulk transfers (CS14) / Filling/ preparation of equipment from drums or containers. (CS45) / Machine

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(CS33) / Maintenance (of larger plant items) and machine set up (CS77) / Elevated temperature (CS111)

Product (article) characteristi	cs	
Covers the percentage of the su	ibstance in the product up to 100 % (unless stated differently).	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in	articles), frequency and duration of use/exposure	
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).	
Not applicable		
Technical and organisational	conditions and measures	
	nder containment or extract ventilation. aterial transfer points and other openings. oupling.	
Clear spills immediately.		
Avoid splashing. Clean equipment and the work a	area every day.	
Conditions and measures rela	ated to personal protection, hygiene and health evaluation	
Wear suitable coveralls to preve	ent exposure to the skin.	
Other conditions affecting wo	rkers exposure	
Assumes a good basic standard	l of occupational hygiene is implemented	
Additional good practice advi	ce. Obligations according to Article 37(4) of REACH do not apply	
	able the derivation of a DNEL for dermal irritant effects. s not required for human health.	
	ure: Transfer of substance or preparation into small containers g weighing) (PROC9) / Storage (CS67) / Maintenance of small I of equipment (CS75)	

Product (article) characterist	ics
Covers the percentage of the s	ubstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

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Amount	used (or contained i	n articles), frequency	and duration of use/exposure	
Use frequency : Covers daily exposures up to 8 hours (unless stated differer ly).				
Not applie	cable			
Technica	al and organisationa	l conditions and meas	sures	
		under containment or ex edominantly enclosed fi		
Clear spil	lls immediately.			
Avoid spl Clean equ	ashing. uipment and the work	area every day.		
Conditio	ns and measures re	ated to personal prot	ection, hygiene and health evaluation	
Wear suit	table coveralls to prev	ent exposure to the ski	n.	
Other co	nditions affecting w	orkers exposure		
Assumes	a good basic standa	d of occupational hygie	ene is implemented	
Assumes	use at not more than	20°C above ambient te	emperature.	
Addition	al good practice adv	rice. Obligations acco	rding to Article 37(4) of REACH do not apply	
Retain dra		torage pending dispose nable the derivation of a	al or for subsequent recycle.	

1.2.9. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics			
Covers the percentage of the sub	ostance in the product up to 100 % (unless stated differently).		
Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articles), frequency and duration of use/exposure			
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).		
Not applicable			
Technical and organisational conditions and measures			
Clear spills immediately.			

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Avoid spla Clean equ	ashing. uipment and the work	area every day.				
Conditio	ns and measures rel	ated to personal prot	ection, hygiene and health evaluation			
	able gloves tested to able coveralls to prev	EN374. ent exposure to the ski	n.			
Other co	Other conditions affecting workers exposure					
Assumes	a good basic standar	d of occupational hygie	ene is implemented			
Assumes use at not more than 20°C above ambient temperature.						
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply						
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.						
1.2.10. Co	ontrol of worker expo	osure: Treatment of a	rticles by dipping and pouring (PROC13)			

Product (article) characteristics	
Covers the percentage of the subst	ance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in ar	ticles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational co	nditions and measures
Use ventilation to extract vapours fi	rom freshly coated articles/objects.
Clear spills immediately.	
Avoid splashing. Clean equipment and the work area	a every day.
Conditions and measures related	d to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN3 Wear suitable coveralls to prevent	
Other conditions affecting worke	ers exposure
Assumes a good basic standard of	occupational hygiene is implemented

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Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

1.2.11. Control of worker exposure: Lubrication at high energy conditions and in partly open process (PROC17) / With potential for aerosol generation (CS138) / Operation and lubrication of high energy open equipment (CS17)

Product (article) characterist	lics
Covers the percentage of the s	substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained i	n articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisationa	I conditions and measures
Minimise exposure by partial e openings. Restrict area of openings to eq	nclosure of the operation or equipment and provide extract ventilation at uipment.
Clear spills immediately.	
Avoid splashing. Clean equipment and the work	area every day.
Other conditions affecting w	orkers exposure
Assumes a good basic standar	rd of occupational hygiene is implemented
Assumes use at not more than	20°C above ambient temperature.
Additional good practice adv	vice. Obligations according to Article 37(4) of REACH do not apply
	nable the derivation of a DNEL for dermal irritant effects. is not required for human health.

1.2.12. Control of worker exposure: Greasing at high energy conditions (PROC18) / Use in closed, continuous process with occasional controlled exposure (PROC2) / Operation and lubrication of high energy open equipment (CS17)

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Product	(article) characterist	CS	
Covers th	e percentage of the s	ubstance in the product	t up to 100 % (unless stated differently).
Physical f	form of product	: Liquid, vapo and Pressur	ur pressure < 0.5 kPa at Standard Temperature e
Amount	used (or contained in	n articles), frequency	and duration of use/exposure
Use frequ	iency	: Covers daily ly).	exposures up to 8 hours (unless stated different-
Not applic	cable		
Technica	I and organisational	conditions and meas	sures
openings.			n or equipment and provide extract ventilation at
Clear spil	ls immediately.		
Avoid spla Clean equ	ashing. uipment and the work	area every day.	
Other co	nditions affecting wo	orkers exposure	
Assumes	a good basic standar	d of occupational hygie	ne is implemented
Assumes	use at not more than	20°C above ambient te	emperature.
Additiona	al good practice adv	ice. Obligations acco	rding to Article 37(4) of REACH do not apply
		able the derivation of a is not required for hum	a DNEL for dermal irritant effects. an health.

1.3. Exposure estimation and reference to its source

Release estimation method:

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1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Fulfilling the above conditions the downstream user is deemed to work safely inside the boundaries set by this exposure scenario.

Other conditions should only be considered if the downstream user implements or recommends an exposure scenario which includes as a minimum the conditions described in this exposure scenario.

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ES 2: Widespread use by professional workers; Professional use; Lubricant.

2.1. Title section

Exposure Scenario name	: Lubricant, Professional use
Structured Short Title	: Widespread use by professional workers; Professional use; Lubricant.

Environn	nent	
CS 1	Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dis- persive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems	ERC8a, ERC8d, ERC9a, ERC9b
Worker		
CS 2	no sampling, General exposures (closed systems)	PROC1, CS57, CS15
CS 3	with sample collection, General exposures (closed systems)	PROC3, CS56, CS15
CS 4	Batch process, General exposures (open systems), With potential for aerosol generation	PROC4, CS16, CS138
CS 5	Elevated temperature, Bulk transfers, Filling/ preparation of equipment from drums or containers., Maintenance (of larger plant items) and ma- chine set up	PROC8a, CS111, CS14, CS45, CS77
CS 6	Elevated temperature, Bulk transfers, Filling/ preparation of equipment from drums or containers., Maintenance (of larger plant items) and ma- chine set up	PROC8b, CS111, CS14, CS45, CS77
CS 7	With Local Exhaust Ventilation, Maintenance of small items	PROC9,, CS18
CS 8	Without Local Exhaust Ventilation, Rolling, Brushing, With Local Exhaust Ventilation	PROC10,,
CS 9	Without Local Exhaust Ventilation, Spraying, With Local Exhaust Venti- lation	PROC7,,
CS 10	Treatment by dipping and pouring	PROC13
CS 11	Out-door use, Operation and lubrication of high energy open equipment, In-door use, Operation of total loss equipment and systems	PROC17,, CS17,, CS21
CS 12	Operation and lubrication of high energy open equipment	PROC18, CS17
CS 13	Engine lubricant service	PROC20, CS78

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2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Wide dispersive indoor use of processing aids in open systems (ERC8a) / Wide dispersive outdoor use of processing aids in open systems (ERC8d) / Wide dispersive indoor use of substances in closed systems (ERC9a) / Wide dispersive outdoor use of substances in closed systems (ERC9b)

Product (article) characteristics		
Covers the percentage of the substa	nce	in the product up to 100 % (unless stated differently).
Physical form of product	:	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in arti	cles), frequency and duration of use/exposure
Not applicable	:	
Technical and organisational cond	ditio	ns and measures
Bund storage facilities to prevent soi	land	d water pollution in the event of spillage.
Conditions and measures related	to s	ewage treatment plant
STP type	:	No specific measures identified.
Conditions and measures related	to tr	reatment of waste (including article waste)
Waste treatment	:	External recovery and recycling of waste should comply with applicable local and/or national regulations.
Other conditions affecting enviror	me	ntal exposure
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100
No toxicity at the limit of solubility		

2.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / no sampling (CS57) / General exposures (closed systems) (CS15)

Product (article) characteristics		
Covers the percentage of the substance in the product up to 100 % (unless stated differently).		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in articles), frequency and duration of use/exposure		

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Use frequ	lency	: Covers daily ly).	v exposures up to 8 hours (unless stated different-
Not applie	cable		
Technica	al and organisational	I conditions and meas	sures
Handle s	ubstance within a clos	ed system.	
Clear spil	lls immediately.		
Avoid spl Clean eq	ashing. uipment and the work	area every day.	
Conditio	ns and measures rel	ated to personal prot	ection, hygiene and health evaluation
	emically resistant glove blonged exposure is e		combination with specific activity training.
Other co	nditions affecting w	orkers exposure	
Assumes	a good basic standar	d of occupational hygie	ene is implemented
A	use at not more than	20°C above ambient te	emperature.
Assumes			
	al good practice adv	vice. Obligations acco	rding to Article 37(4) of REACH do not apply

2.2.3. Control of worker exposure: Use in closed batch process (synthesis or formulation) (PROC3) / with sample collection (CS56) / General exposures (closed systems) (CS15)

Product (article) characteristics				
Covers the percentage of the sub-	stance in the product up to 100 % (unless stated differently).			
Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure				
Amount used (or contained in articles), frequency and duration of use/exposure				
Use frequency : Covers daily exposures up to 8 hours (unless stated different- ly).				
Not applicable				
Technical and organisational conditions and measures				
Ensure samples are obtained under containment or extract ventilation. Handle substance within a closed system.				
Clear spills immediately.				

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Avoid splashing.

Clean equipment and the work area every day.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented

Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

2.2.4. Control of worker exposure: Use in batch and other process (synthesis) where opportunity for exposure arises (PROC4) / General exposures (open systems) (CS16) / With potential for aerosol generation (CS138)

Product (article) characteristics			
Covers the percentage of the substance	in the product up to 100 % (unless stated differently).		
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in articles	s), frequency and duration of use/exposure		
Use frequency :	Covers daily exposures up to 8 hours (unless stated different- ly).		
Not applicable			
Technical and organisational condition	ons and measures		
Ensure samples are obtained under containment or extract ventilation. Transfer via enclosed lines.			
Clear spills immediately.			
Avoid splashing. Clean equipment and the work area every day.			
Conditions and measures related to personal protection, hygiene and health evaluation			
Protective gloves complying with EN 374.			
Other conditions affecting workers exposure			

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Assumes a good basic standard of occupational hygiene is implemented

Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Retain drain downs in sealed storage pending disposal or for subsequent recycle. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

2.2.5. Control of worker exposure: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities (PROC8a) / Elevated temperature (CS111) / Bulk transfers (CS14) / Filling/ preparation of equipment from drums or containers. (CS45) / Maintenance (of larger plant items) and machine set up (CS77)

Product (article) characteristics			
Covers the percentage of the s	substance in the product up to 100 % (unless stated differently).		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained	in articles), frequency and duration of use/exposure		
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).		
Not applicable			
Technical and organisationa	I conditions and measures		
Clear transfer lines prior to de- Provide extract ventilation to m Transfer via enclosed lines.	coupling. naterial transfer points and other openings.		
Use drum pumps.			
Clear spills immediately.			
Avoid splashing. Clean equipment and the work area every day.			
Conditions and measures related to personal protection, hygiene and health evaluation			
Wear suitable coveralls to prev	/ent exposure to the skin.		
Other conditions affecting w	orkers exposure		
Assumes a good basic standard of occupational hygiene is implemented			
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply			
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.			

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A quantitative risk assessment is not required for human health.

2.2.6. Control of worker exposure: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities (PROC8b) / Elevated temperature (CS111) / Bulk transfers (CS14) / Filling/ preparation of equipment from drums or containers. (CS45) / Maintenance (of larger plant items) and machine set up (CS77)

Product (article) characteristic	S	
Covers the percentage of the sub	ostance in the product up to 100 % (unless stated differently).	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in	articles), frequency and duration of use/exposure	
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).	
Not applicable		
Technical and organisational c	onditions and measures	
Clear transfer lines prior to de-co Provide extract ventilation to mat Transfer via enclosed lines.	upling. erial transfer points and other openings.	
Use drum pumps.		
Clear spills immediately.		
Avoid splashing. Clean equipment and the work a	rea every day.	
Conditions and measures relat	ed to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prever	nt exposure to the skin.	
Other conditions affecting wor	kers exposure	
Assumes a good basic standard	of occupational hygiene is implemented	
Additional good practice advic	e. Obligations according to Article 37(4) of REACH do not apply	
Available hazard data do not ena	ble the derivation of a DNEL for dermal irritant effects.	

2.2.7. Control of worker exposure: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (PROC9) / With Local Exhaust Ventilation () / Maintenance of small items (CS18)

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Product	(article) characterist	ics		
Covers th	e percentage of the s	ubstance in the produc	t up to 100 % (unless stated differently).	
Physical f	form of product	: Liquid, vapo and Pressu	our pressure < 0.5 kPa at Standard Temperature re	Ð
Amount	used (or contained i	n articles), frequency	and duration of use/exposure	
Use frequ	iency	: Covers dail ly).	y exposures up to 8 hours (unless stated differe	nt-
Not applic	cable			
Technica	I and organisational	conditions and mea	sures	
Provide s	ufficient air exchange	and/or exhaust in wor	k rooms.	
Clear spills immediately.				
Avoid splashing. Clean equipment and the work area every day.				
Other co	nditions affecting w	orkers exposure		
Assumes	a good basic standar	d of occupational hygie	ene is implemented	
Assumes	use at not more than	20°C above ambient t	emperature.	
Addition	al good practice adv	ice. Obligations acco	ording to Article 37(4) of REACH do not apply	,
Available	Retain drain downs in sealed storage pending disposal or for subsequent recycle. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.			

2.2.8. Control of worker exposure: Roller application or brushing (PROC10) / Without Local Exhaust Ventilation () / With Local Exhaust Ventilation ()

Product (article) characteristics				
Covers the percentage of the s	substance in the product up to 100 % (unless stated differently).			
Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure				
Amount used (or contained in articles), frequency and duration of use/exposure				
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).			
Not applicable				
Technical and organisationa	I conditions and measures			

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Provide ex	tract ventilation to po	ints where emissions of	DCCUI	
	s immediately.			
Avoid spla Clean equ	shing. ipment and the work	area every day.		
Condition	s and measures rela	ated to personal prote	ection, hygiene and health evaluation	
		EN140 with Type A fil wear respiratory prot		
Wear suitable gloves tested to EN374. Wear suitable coveralls to prevent exposure to the skin.				
Other con	ditions affecting wo	orkers exposure		
Assumes a	Assumes a good basic standard of occupational hygiene is implemented			
Assumes	Assumes use at not more than 20°C above ambient temperature.			
Additiona	I good practice adv	ce. Obligations acco	rding to Article 37(4) of REACH do not apply	
	Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.			

2.2.9. Control of worker exposure: Industrial spraying (PROC7) / Without Local Exhaust Ventilation () / With Local Exhaust Ventilation ()

Product (article) characteristi	cs
Covers the percentage of the su	ubstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational	conditions and measures
Carry out in a vented booth or e Provide a good standard of con	extracted enclosure. trolled ventilation (10 to 15 air changes per hour).
Clear spills immediately.	
Avoid splashing. Clean equipment and the work a	area every day.
Conditions and measures rela	ated to personal protection, hygiene and health evaluation

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Change filter cartridge on respirator daily. When spraying without ventilation: Wear a respirator conforming to EN140 with Type A filter or better.

Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented

Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Retain drain downs in sealed storage pending disposal or for subsequent recycle. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

2.2.10. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristic	s
Covers the percentage of the sub	ostance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational of	conditions and measures
Use ventilation to extract vapours	s from freshly coated articles/objects.
Clear spills immediately.	
Avoid splashing. Clean equipment and the work a	rea every day.
Conditions and measures relat	ed to personal protection, hygiene and health evaluation
Wear suitable gloves tested to El Wear suitable coveralls to prever	
Other conditions affecting wor	kers exposure
Assumes a good basic standard	of occupational hygiene is implemented
Assumes use at not more than 2	0°C above ambient temperature.

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. A quantitative risk assessment is not required for human health.

2.2.11. Control of worker exposure: Lubrication at high energy conditions and in partly open process (PROC17) / Out-door use () / Operation and lubrication of high energy open equipment (CS17) / In-door use () / Operation of total loss equipment and systems (CS21)

Product (article) characterist	ics
Covers the percentage of the s	ubstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	n articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational	conditions and measures
Restrict area of openings to equination of openings to equination use Provide extraction ventilation at	uipment. t points where emissions occur.
Ensure operation is undertaken Outdoor use	outdoors.
Clear spills immediately.	
Avoid splashing. Clean equipment and the work	area every day.
Other conditions affecting we	orkers exposure
Indoor or outdoor use	: Indoor
Assumes a good basic standar	d of occupational hygiene is implemented
Assumes use at not more than	20°C above ambient temperature.
Operation and lubrication of hig	h energy open equipment
Operation of total loss equipme	nt and systems
Additional good practice adv	ice. Obligations according to Article 37(4) of REACH do not apply
	nable the derivation of a DNEL for dermal irritant effects. is not required for human health.

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2.2.12. Control of worker exposure: Greasing at high energy conditions (PROC18) / Operation and lubrication of high energy open equipment (CS17)

Product (article) characteristic	S
Covers the percentage of the su	bstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).
Not applicable	
Technical and organisational	conditions and measures
Provide extraction ventilation at Restrict area of openings to equ	
Clear spills immediately.	
Avoid splashing. Clean equipment and the work a	rea every day.
Other conditions affecting wo	kers exposure
Assumes a good basic standard	of occupational hygiene is implemented
Assumes use at not more than 2	0°C above ambient temperature.
Additional good practice advi	e. Obligations according to Article 37(4) of REACH do not apply
Available hazard data do not en A quantitative risk assessment i	able the derivation of a DNEL for dermal irritant effects.

2.2.13. Control of worker exposure: Heat and pressure transfer fluids in dispersive, professional use but closed systems (PROC20) / Engine lubricant service (CS78)

Product (article) characteristic	S
Covers the percentage of the sul	bstance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in	articles), frequency and duration of use/exposure
Use frequency	: Covers daily exposures up to 8 hours (unless stated different- ly).

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Not applie	cable		
Technica	al and organisationa	I conditions and meas	sures
Handle su	ubstance within a clos	ed system.	
Clear spil	ls immediately.		
Avoid spl Clean eq	ashing. uipment and the work	area every day.	
Conditio	ns and measures re	lated to personal prot	ection, hygiene and health evaluation
Wear che		es (tested to EN374) in	combination with specific activity training.
Wear che When pro	emically resistant glov	es (tested to EN374) in xpected:	
Wear che When pro Other co	emically resistant glove blonged exposure is e nditions affecting w	es (tested to EN374) in xpected:	combination with specific activity training.
Wear che When pro Other co Assumes	emically resistant glove blonged exposure is e nditions affecting w a good basic standar	es (tested to EN374) in xpected: orkers exposure	combination with specific activity training.
Wear che When pro Other co Assumes Assumes	emically resistant glove blonged exposure is e nditions affecting w a good basic standar use at not more than	es (tested to EN374) in xpected: orkers exposure rd of occupational hygie 20°C above ambient te	combination with specific activity training.

2.3. Exposure estimation and reference to its source

Release estimation method:

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Fulfilling the above conditions the downstream user is deemed to work safely inside the boundaries set by this exposure scenario.

Other conditions should only be considered if the downstream user implements or recommends an exposure scenario which includes as a minimum the conditions described in this exposure scenario.