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

1.1 Product identifier

Trade name

MAXISTAB[™] Pure Power Stabilizer

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture Stabiliser concentrate

Uses advised against Uses which are not mentioned in the relevant identified uses.

1.3 Details of the supplier of the safety data sheet

Address

SAFECHEM Europe GmbH Tersteegenstr. 25 40474 Düsseldorf Germany Telephone no. +49 211 4389300 Fax no. +49 211 4389389 e-mail service@safechem.com

Advice on Safety Data Sheet sds@safechem.com

1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord) In case of transport incidents and other emergencies: +44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP) Aquatic Chronic 3; H412

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

- Signal word -	
Hazard statement(s) H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(P273 P501	s) Avoid release to the environment. Dispose of contents/container to an approved waste facility.

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2.3 Other hazards

PBT assessment No data available. vPvB assessment No data available.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Not applicable. The product is not a substance.

3.2 **Mixtures**

Hazardous ingredients

No	Substance name		Additi	onal information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration	%
	REACH no				
1	Hydrocarbons, C16	5-C20, n-alkanes, iso-alkanes, cyclic, <2%			
	aromatics				
	1174522-19-0	Asp. Tox. 1; H304	<	5.00	%-b.w.
	919-029-3	EUH066			
	-				
	01-2119457735-29				
2	2,4-di-tert-butylphe				
	96-76-4	Aquatic Acute 1; H400	<	2.50	%-b.w.
	202-532-0	Aquatic Chronic 1; H410			
	-	Eye Dam. 1; H318			
	-	Skin Irrit. 2; H315			
3	BIS(2-DIMETHYLAI	MINOETHYL)(METHYL)AMINE			
	3030-47-5	Acute Tox. 3; H311	<	0.50	%-b.w.
	221-201-1	Acute Tox. 4; H302			
	612-109-00-6	Skin Corr. 1B; H314			
	01-2119979537-18	Eye Dam. 1; H318			
		Acute Tox. 3; H331			
		Aquatic Chronic 3; H412			
4	triethylamine				
	121-44-8	Flam. Liq. 2; H225	<	0.50	%-b.w.
	204-469-4	Acute Tox. 4; H302			
	612-004-00-5	Acute Tox. 3; H311			
	01-2119475467-26	Skin Corr. 1A; H314			
		Acute Tox. 3; H331			
		STOT SE 3; H335			
Full	Text for all H-phrases	and EUH-phrases: pls. see section 16			

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
4	-	STOT SE 3; H335: C >= 1%	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

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After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After indestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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- Most important symptoms and effects, both acute and delayed 4.2 No data available.
- 4.3 Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

5.1 **Extinguishing media**

Suitable extinguishing media Water spray jet; Extinguishing powder; Carbon dioxide; Foam Unsuitable extinguishing media High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Nitrogen oxides (NOx)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Heat causes increase in pressure and risk of bursting. Cool closed containers exposed to fire with water. Containers close to fire should be transferred to a safe place. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Only engage trained and adequately protected personnel. Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

Environmental precautions 6.2

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up 6.3

Prevent spread over a wide area (by containment with sand or earth). Contain and collect spillage with noncombustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Reference to other sections 6.4

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Keep away from foodstuffs and beverages. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.



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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one. Inappropriate material aluminium; Copper, copper alloys; galvanised iron; galvanised steel

Advice on storage assembly

Substances to be avoided, pls. See chapter 10.

7.3 Specific end use(s)

Industry solution

For further information contact supplier.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	triethylamine	121-44-8		204-469	-4
	List of approved workplace exposure limits (WELs) / EH40			
	Triethylamine				
	STEL	17	mg/m³	4	ml/m³
	TWA	8	mg/m³	2	ml/m³
	Skin resorption / sensibilisation	Sk			
	2000/39/EC				
	Triethylamine				
	STEL	12.6	mg/m³	3	ppm
	TWA	8.4	mg/m³	2	ppm
	Skin resorption / sensibilisation	Skin			

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	Substance name			
	Route of exposure	Exposure time	Effect	Value	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE		3030-47- 221-201-	-	
	dermal	Long term (chronic)	systemic	0.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	1058	mg/m³
2	triethylamine			121-44-8 204-469-/	
	dermal	Long term (chronic)	systemic	12.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	8.4	mg/m³
	inhalative	Short term (acut)	systemic	12.6	mg/m³
	inhalative	Long term (chronic)	local	8.4	mg/m ³
	inhalative	Short term (acut)	local	12.6	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure Exposure time Effect			Value	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE			3030-47-5	
				221-201-1	
	oral	Long term (chronic)	systemic	0.15	mg/kg/day
	dermal	Long term (chronic)	systemic	0.15	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.261	mg/m³

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	PNEC values			
No	Substance name		CAS / EC	no
	ecological compartment	Туре	Value	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE	3030-47-5 221-201-1	
	water	fresh water	0.055	mg/l
	water	marine water	0.005	mg/l
	water	fresh water sediment	0.398	mg/kg dry weight
	water	marine water sediment	0.04	mg/kg dry weight
	soil	-	0.047	mg/kg dry weight
	sewage treatment plant	-	0.005	mg/l
	secondary poisoning	-	6.67	mg/kg food
2	triethylamine		121-44-8 204-469-4	
	water	fresh water	0.11	mg/l
	water	marine water	0.011	mg/l
	water	Aqua intermittent	0.08	mg/l
	water	fresh water sediment	1.575	mg/kg dry weight
	water	marine water sediment	0.158	mg/kg dry weight
	soil	-	0.25	mg/kg dry weight
	sewage treatment plant	-	100	mg/l

8.2 **Exposure controls**

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust, aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Respirator

AP2

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	chlorinated polyethylene (CPE)			
Appropriate Material	Polyethylene			
Appropriate Material	ethyl vinyl alcohol lam	inate (EVAL)	
Appropriate Material	In case of short-term contact / splash protection:			
Material thickness	>	0.35	mm	
Breakthrough time	>	60	min	
Appropriate Material	In case of longer-term	contact:		
Material thickness	>	0.35	mm	
Breakthrough time	>	240	min	
-				

Other

Chemical-resistant work clothes.

Environmental exposure controls No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour						
liquid						
yellow; amber						
Odour						
ammonia-like						
Odour threshold						
No data available						
pH value		0.5				
Value		9.5	~ //			
Concentration	Cupplier	255	g/l			
Source	Supplier					
Boiling point / boiling range						
Value	90 -	340	٥°C			
Reference pressure		760	mm Hg			
Source	Supplier		0			
Melting point / melting range						
No data available						
Setting point / solidification range						
Value		0	°C			
Source	Supplier		-			
Decomposition point / decomposition range						
No data available						
Flash point						
Value	>	180	°C			
Method	ASTM D 93		-			
Source	Supplier					
Auto-ignition temperature	1	100				
Value	Cumplian	190	° C			
Source	Supplier					
Oxidising properties						
No data available						
Explosive properties						
No data available						
Flammability (solid, gas)						
No data available						
Lower flammability or explosive limits						
No data available						
Upper flammability or explosive limits						
No data available						
Vapour pressure		0.05	anh a r			
Value		0.85	mbar °C			
Reference temperature Source	Supplier	20	0			



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N					
Vapour density					
No data available					
Evaporation rate					
No data available					
Relative density					
Value		0.9526			
Reference temperature		20	°C		
Source	Supplier				
Density					
No data available					
Solubility in water	1				
Value		255	g/l		
Reference temperature		20	°C		
Source	Supplier				
Solubility(ies)					
No data available					
Partition coefficient: n-octanol/water					
No Substance name		CAS no.		EC no.	
1 BIS(2-DIMETHYLAMINOETHYL)(METHYL	.)AMINE	3030-47-5		221-201-1	
log Pow	Í		-2.1		
Reference temperature			25	°C	
Method	OECD 107				
Source	ECHA				
2 triethylamine		121-44-8		204-469-4	
log Pow			1.45		
Source	ECHA				
Viscosity					
Value		15.71	mm²/s		
Reference temperature		20	°C		
Source	Supplier		-		
	1				

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Do not distill to dryness. Hazard of decomposition at higher temperatures.

10.5 Incompatible materials

strong acids; strong bases; strong oxidizing agents

10.6 Hazardous decomposition products Nitrous oxides (NOx)



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity					
No	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL	.)AMINE	3030-47-5		221-201-1	
LD5	-			1330	mg/kg bodyweight	
Spe		rat				
Met		OECD 401				
Sou		ECHA				
2	triethylamine		121-44-8		204-469-4	
LD5				730	mg/kg bodyweight	
Spe		rat				
Met		OECD 401				
Sou	rce	ECHA				
Acu	te dermal toxicity (result of the ATE calcu	lation for the	e mixture)			
	Product Name					
1	MAXISTAB [™] Pure Power Stabilizer					
Rem	narks	The result of	the applied cal	culation meth	od according to the	
		European Re	egulation (EC)	1272/2008 (C	LP), Paragraph 3.1.3.6,	
		Part 3 of Anr	nex I is outside	the values th	at imply a classification /	
					3.1.1 defining the	
		respective ca	ategories (ATE	dermal > 200	0 mg/kg).	
Δου	te dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	triethylamine		121-44-8		204-469-4	
LD5				580	mg/kg bodyweight	
Spe		rabbit		000		
Met		OECD 402				
Sou	rce	ECHA				
	te inhalational toxicity (result of the ATE of	calculation for	or the mixture			
-	Product Name					
1	MAXISTAB [™] Pure Power Stabilizer		the eventied eat	laulatiana maatka		
Ren	harks				od according to the LP), Paragraph 3.1.3.6,	
		Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the				
		respective categories (ATE for inhalation: > 20.000 ppmV (gases), >				
		20 mg/l (vapours), > 5 mg/l (dusts/mists).				
		_0g;: (≀∝p	eu.e), = eg,:	(44010, 111010)		
	te inhalational toxicity					
No o	data available					
Skir	n corrosion/irritation					
No	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL	.)AMINE	3030-47-5		221-201-1	
Spe		rabbit				
Met		OECD 404				
Sou		ECHA				
Eva	luation	corrosive				
Sori	ous eye damage/irritation					
	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE	3030-47-5		221-201-1	
Spe		rabbit	0000 11 0			
Met		OECD 405				
Sou		ECHA				
	luation		effects on the e	Ve		



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Respiratory or skin sensitisation						
No	Substance name		CAS no.	EC no.		
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL	.)AMINE	3030-47-5	221-201-1		
Rout	te of exposure	Skin				
Spec		mouse				
Meth		OECD 429				
Sour		ECHA				
Evaluation/classification Based on available data, the classification criteria are not met.						
Germ cell mutagenicity						
	lata available					
Rep	roduction toxicity					
No d	lata available					
Carc	cinogenicity					
No d	lata available					
STO	T - single exposure					
No d	lata available					
STO	T - repeated exposure					
No d	lata available					
Aspi	iration hazard					
No d	lata available					

SECTION 12: Ecological information

12.1 Toxicity

	icity to fish (acute)					
No	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHY	L)AMINE	3030-47-5		221-201-1	
LC5				157	mg/l	
	ation of exposure			96	h	
Spe		Oncorhync				
Meth		OECD 203				
Sou		ECHA				
2	triethylamine	-	121-44-8		204-469-4	
LC5				24	mg/l	
	ation of exposure			96	h	
Spe		Oryzias lati				
Meth		OECD 203				
Sou	rce	ECHA				
Τοχ	icity to fish (chronic)					
-	data available					
	icity to Daphnia (acute)					
	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHY	L)AMINE	3030-47-5		221-201-1	
EC5	-			54.9	mg/l	
	ation of exposure			48	h	
Spe		Daphnia ma	agna			
Meth		EU C.2				
2	triethylamine	-	121-44-8		204-469-4	
EC5	-			200	mg/l	
	ation of exposure			48	h	
Spe		Daphnia ma	agna			
Meth		OECD 202				
1 C	rce	ECHA				

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Tar	icity to Donknin (okronic)					
	icity to Daphnia (chronic) data available					
INO C						
Tox	icity to algae (acute)					
No	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE	3030-47-5		221-201-1	
ErC				78.3	mg/l	
	ation of exposure			72	h	
Spe			us subspicatus			
Meth		EU C.3				
Sou		ECHA				
2	triethylamine	1	121-44-8		204-469-4	
EC5	-			8	mg/l	
	ation of exposure	B 1111		72	h	
Spe			neriella subcapit	ata		
Meth		OECD 201				
Sou	rce	ECHA				
Tox	icity to algae (chronic)					
	data available					
	4 • • . • . •					
	teria toxicity		040		FO	
<u>1</u>			CAS no. 3030-47-5		EC no. 221-201-1	
NOE		1	3030-47-5	1000		
		>		30	mg/l	
	ation of exposure	activated slue	daa	30	min	
Spe		OECD 209	lge			
Method Source		ECHA				
30u	ice	ECHA				
.2 F	Persistence and degradability					
	degradability					
No	Substance name		CAS no.		EC no.	
1	triethylamine		121-44-8		204-469-4	
Туре		aerobic biode	gradation			
Valu			<u> </u>	80.3	%	
Dura	ation			29	dav(s)	

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water						
No	Substance name		CAS no.		EC no.	
1	BIS(2-DIMETHYLAMINOETHYL)(METHYL	.)AMINE	3030-47-5		221-201-1	
log F	Pow			-2.1		
Refe	erence temperature			25	°C	
Meth	nod	OECD 107				
Sour	rce	ECHA				
2	triethylamine		121-44-8		204-469-4	
log F	Pow			1.45		
Sour	rce	ECHA				

OECD 301 B ECHA

readily biodegradable

12.4 Mobility in soil

Method

Source

Evaluation

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
PBT assessment	No data available.		
vPvB assessment	No data available.		

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Other adverse effects

No data available.

12.7 Other information Other information

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13.1 Waste treatment methods

SECTION 13: Disposal considerations

Do not discharge into the drains or waters and do not store on public depositories.

Product

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Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

- **14.3 Transport ICAO-TI / IATA** The product is not subject to ICAO-TI / IATA regulations.
- **14.4 Other information** No data available.
- **14.5 Environmental hazards** Information on environmental hazards, if relevant, please see 14.1 - 14.3.
- **14.6** Special precautions for user No data available.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation) According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES				
The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3			

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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Further information

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Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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