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

- · 1.1 Product identifier
- · Trade name: COSMOS LAC SPRAY POWER GLUE N741
- Article number: N741
- · UFI: NKHA-4V9J-F20N-QQSP
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against -
- $\cdot$  Application of the substance / the mixture <code>Glue/</code> Sising agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Cosmos Lac ΑΕ Πίνδου 1, Καλλιθέα 17672,

Aθήνα.- 1 Pindou str, Kallithea 17672, Athens. - Greece

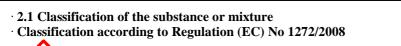
Phone: +30 2109570222

Fax: +30 2109566671

· Further information obtainable from: Research & Development: <u>factory@cosmoslac.com</u>

• 1.4 Emergency telephone number: During normal business hours: Tel: +30 2109570222

# **SECTION 2: Hazards identification**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

× .		
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336 · ·	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

· 2.2 Label elements

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

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

• **Hazard-determining components of labelling:** Hydrocarbons, C6, isoalkanes <5%, n-hexane butanone

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• Hazard s	(Contd. of page 1)
	29 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
· Precautio	onary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P301+P31	10 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	52 IF ON SKIN: Wash with plenty of soap and water.
P304+P34	10 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403	Store in a well-ventilated place.
P410+P41	2 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other	
	f PBT and vPvB assessment
	applicable.
• <b>vPvB:</b> No	t applicable.
· Determin	ation of endocrine-disrupting properties
78-93-3 t	Dutanone List II

# **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

\*

· Description: Active substance with propellant

· Dangerous components:		
CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons,C6,isoalkanes<5%,n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25-<50%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Liq.), H280	10-<25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2,5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2,5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2,5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	0,1-<1%

## · Additional information:

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

according to 1907/2006/EC, Article 31

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The text of the hazard statements mentioned here can be found in chapter 16.

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#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

• 5.1 Extinguishing media

• Suitable extinguishing agents:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

#### **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

•7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

 $\cdot$  Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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			(Contd. of page
	ions for safe storag	, including any incompatibilities	
<ul> <li>Storage:</li> <li>Requirem</li> </ul>	ents to be met by st	rerooms and receptacles:	
Store in a c	cool location.	_	
		storing packagings with pressurised contain one common storage facility:	ers.
Observe of	ficial regulations on	storing packagings with pressurised contain	ers.
	formation about st	rage conditions: well sealed receptacles.	
	m heat and direct su		
· Storage cl	ass: 2 B		
· 7.3 Specifi	c end use(s) No fur	er relevant information available.	
SECTIO	N 8: Exposure	ontrols/personal protection	
· 8.1 Contro	ol parameters		
·Ingredien	ts with limit values	hat require monitoring at the workplace	:
	limethyl ether		
× ×	8(II);DFG, I		
		0.1% butadiene (203-450-8), Note K)	
AGW (Gei	many) Long-term v 4(II);DFG	lue: 2400 mg/m <sup>3</sup> , 1000 ppm	
74-98-6 pr	-		
AGW (Gei	many) Long-term v 4(II);DFG	lue: 1800 mg/m <sup>3</sup> , 1000 ppm	
78-93-3 bi			
AGW (Gei	many) Long-term v 1(I);DFG, E	lue: 600 mg/m <sup>3</sup> , 200 ppm J, H, Y	
	· · ·	< 0,1 % butadiene (203-450-8), Note K)	
AGW (Gei	rmany) Long-term v 4(II);DFG	lue: 2400 mg/m <sup>3</sup> , 1000 ppm	
· DNELs			
78-93-3 bu	itanone		
Oral	•	stemic 31 mg/kg bw/day (Consumer)	
Dermal	DNEL Long term-s	stemic 412 mg/kg bw/day (Consumer)	
Inhalativa	DNEL Long torm	1161 mg/kg bw/day (Worker) stemic 106 mg/m3 (Consumer)	
minarative	DIVEL Long term-s	600 mg/m3 (Worker)	
· Ingredient	ts with biological li	<b>-</b>	
78-93-3 bi	0		
BGW (Ger	rmany) 2 mg/l		
		smaterial: Urin	da
	Probennahm Parameter: 2	zeitpunkt: Expositionsende bzw. Schichten Butanon	ue
·Additiona		sts valid during the making were used as ba	usis.
	ire controls		
· Appropria · Individual	te engineering con protection measur	rols No further data; see item 7. s, such as personal protective equipment	:
	rotective and hygie from foodstuffs, be		
<b>N PER 30/30</b>	mom noodsturrs, be	erages and reeu.	

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	(Contd. of page 4
Immediately remove all soiled and contamin	nated clothing
Wash hands before breaks and at the end of	work.
Do not inhale gases / fumes / aerosols.	
Avoid contact with the skin.	
Avoid contact with the eyes and skin.	
General ventilation	
Respiratory protection:	
Use suitable respiratory protective device in	a case of insufficient ventilation
Filter A2/P2	euse of mournelent ventilation.
Hand protection	
Wear gloves for the protection against chem	nicals according to EN 374
wear gloves for the protection against chem	licens according to EAV 574
μη	
Protective gloves	
Solvent resistant gloves	
	tion of the penetration times, rates of diffusion and the degradation
Material of gloves	1 ,
	t only depend on the material, but also on further marks of quality
	rer. As the product is a preparation of several substances, the
	alculated in advance and has therefore to be checked prior to the
application.	alegance in auvance and has therefore to be enceked prior to the
Nitrile rubber, NBR	
Recommended thickness of the material: $\geq 0$	0.5 mm
<b>Penetration time of glove material</b>	0,5 11111
	as with break through time of at least 240 minutes, with the
	res with breakthrough time of at least 240 minutes, with the
	ater than 480 minutes. For short-term or splash guard we
	itable gloves that offer this level of protection may not be available
	e acceptable as long as the procedures governing maintenance and
	ness of the gloves is not a good measure of the resistance of the
	e this depends on the exact composition of the material from which
the gloves are made.	
The exact break trough time has to be found	l out by the manufacturer of the protective gloves and has to be
observed.	
Eye/face protection	
Safety glasses	
Tightly sealed goggles	
Body protection:	
Use protective suit. (EN-13034/6)	
	bil resistant clothing and safety shoes are recommended. (EN1149;
EN340&EN ISO 13688; EN13034-6).	
Environmental exposure controls Use a su	uitable container to prevent environmental contamination.
SECTION 0. Physical and chamic	al proportios
SECTION 9: Physical and chemica	ai properties
9.1 Information on basic physical and che	emical properties
General Information	
Physical state	Aerosol
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
menning point in terming point.	Undetermined.
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<b>N</b> 11 / 1 / 1 1 11 11 / 1 / 1 1 11	(Contd. of page
Boiling point or initial boiling point and boiling	11.5 °C
range	-44,5 °C
Flammability	Not applicable.
Lower and upper explosion limit	1 1 17.10/
Lower:	1,1 Vol %
Upper:	18,6 Vol %
Flash point:	-97 °C
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH	Mixture is non-polar/aprotic.
Viscosity:	
Kinematic viscosity	≤ 20,5 mm2/s, 40 °C (L)
Dynamic:	Not determined
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	3000 hPa
Density and/or relative density	
Density at 20 °C:	0,707 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	A 1
Form:	Aerosol
Important information on protection of health and	1
environment, and on safety.	
Ignition Temperature	>200 °C
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	83,2 %
Solids content:	16,8 %
Change in condition	,
Evaporation rate	Not applicable.
•	••
Information with regard to physical hazard classe	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container:
- · · · ·	May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
	Void
Oxidising liquids	
Oxidising liquids Oxidising solids	Void
Oxidising liquids Oxidising solids Organic peroxides	Void Void
Oxidising liquids Oxidising solids	Void

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# **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

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

• Acute toxicity Based on available data, the classification criteria are not met.

### · LD/LC50 values relevant for classification:

## 64742-49-0 Hydrocarbons, C6, isoalkanes<5%, n-hexane

Oral LD50 >5000 mg/kg (Rat)

Dermal LD50 >3000 mg/kg (Rabbit) Inhalative LC50 (4h) >10000 mg/l (Rat)

#### 78-93-3 butanone

Oral	LD50	>2193 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rabbit)
		5000 mg/kg (Rabbit)

• Skin corrosion/irritation Causes skin irritation.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure May cause drowsiness or dizziness.

 $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard May be fatal if swallowed and enters airways.

· 11.2 Information on other hazards

• Endocrine disrupting properties

78-93-3 butanone

List II

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity:

#### 64742-49-0 Hydrocarbons, C6, isoalkanes<5%, n-hexane

LC50 >2 mg/l (Fish)

#### 78-93-3 butanone

LC50 (96h) 2993 mg/l (Pimephales promelas)

EC50 (48h) 308 mg/l (Daphnia magna)

• 12.2 Persistence and degradability Not easily biodegradable

- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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- (Contd. of page 7) • **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
20 01 13*	solvents	
15 01 04	metallic packaging	
HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	
HP14	Ecotoxic	

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR, ADN	UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG	AEROSOLS (PENTANES,
	Hydrocarbons,C6,isoalkanes, <5% n-hexane),
	MARINE POLLUTANT
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
•	
ADR	
▲ ¥2	
Class	2 5F Gases.

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	(Contd. of page
ADN ADN/R Class:	2 5F
IMDG	
Class Label	2.1 Gases. 2.1
ΙΑΤΑ	
Class Label	2.1 Gases. 2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: Pentane
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Gases.
EMS Number: Stowage Code	F-D,S-U SW1 Protected from sources of heat.
-	SW2 Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:
	Segregation as for class 9. Stow "separated from" class
	1 except for division 1.4.
	For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class
	2.
	For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class
	2.
14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
Transport/Additional information:	
ADR Excented excentition (EQ)	Code: E0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
	(Contd. on page 1

according to 1907/2006/EC, Article 31

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· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

## **SECTION 15: Regulatory information**

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. · Seveso category P3a FLAMMABLE AEROSOLS E2 Hazardous to the Aquatic Environment · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II None of the ingredients is listed. · REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. · Annex II - REPORTABLE EXPLOSIVES PRECURSORS None of the ingredients is listed. · Regulation (EC) No 273/2004 on drug precursors 78-93-3 butanone 3 • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors 78-93-3 butanone 3 · National regulations: · Technical instructions (air): Class Share in % NK 75-<100

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· VOC-CH 83,20 %

· VOC-EU 588,2 g/l

· Danish MAL Code 5-3

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.	
H411 Toxic to aquatic life with long lasting effects.	
EUH066 Repeated exposure may cause skin dryness or cracking.	
· Classification according to Regulation (EC) No 1272/2008	
Physical and chemical properties: The classification is based on the results of the mixtures tested. Health	
hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the	
mixture (sum formula).	
· Department issuing SDS: Produktsicherheit	
· Contact: factory@cosmoslac.com	
Date of previous version: 13.01.2022	
· Version number of previous version: 45	
· Abbreviations and acronyms:	
ADDR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the	
International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)	
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)	
DNEL: Derived No-Effect Level (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1A: Flammable gases – Category 1A Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Press. Gas (Liq.): Gases under pressure – Liquefied gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2	
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