

Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 1/12

ALU CUT F520

Safety data sheet

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

1.1. Product identifier

Code: U051500004
Product name ALU CUT F520

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Intended use
 Cutting fluid for aluminum.
 Uses advised against:
 Different uses than those intended.

1.3. Details of the supplier of the safety data sheet

Name CENTRO DISTRIBUZIONE UTENSILI SCPA

Full address Via delle Gerole, 19
District and Country 20867 CAPONAGO (MB)

ITALY

tel. +39 02 95746081

fax. + 39 02 95745182

e-mail address of the competent person

responsible for the Safety Data Sheet info@cdu.net

Product distribution by Centro Distribuzione Utensili Scpa

1.4. Emergency telephone number

For urgent inquiries refer to +39 02 95746081 during office hours 8.30-12.30 - 13.30-17.30

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1 H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: DANGER

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P102 Keep out of reach of children.



ALU CUT F520

Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 2/12

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.

P331 Do NOT induce vomiting.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
P501 Dispose of contents / container to in accordance with local and national regulations

Contains: HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification X = Conc. % Classification 1272/2008 (CLP)

Hydrocarbons, C3-4

CAS 68476-40-4 33,6 ≤ x < 38,6 Flam. Gas 1 H220, Press. Gas H280, Note K U

EC 270-681-9 INDEX 649-199-00-1

Distillates (petroleum), solvent-dewaxed heavy paraffinic

CAS 64742-65-0 $33,5 \le x < 38,5$ Nota L

EC 265-169-7

INDEX -

Reg. no. 01-2119471299-27

Hydrocarbons, C9-C11, N-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics

CAS - 11,973 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066,

EC 919-857-5 Note H P

INDEX -

Reg. no. 01-2119463258-33

Calcium dihydroxide

CAS 1305-62-0 0,083 Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC 215-137-3

INDEX -

Reg. no. 01-2119475151-45

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants max: 38,60 %

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

[&]quot;Restricted to professional users"



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 3/12

ALU CUT F520

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

7.3. Specific end use(s)

Cutting fluid for aluminum.

SECTION 8. Exposure controls/personal protection



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 4/12

ALU CUT F520

8.1. Control parameters

Regulatory References:

FIN

DEU Deutschland MAK-und BAT-Werte-Liste 2012
DNK Danmark Graensevaerdier per stoffer og m

DNK Danmark Graensevaerdier per stoffer og materialer
ESP España INSHT - Límites de exposición profesional para agentes químicos en España 2015

Suomi HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja

2012:5

FRA France JORF n°0109 du 10 mai 2012 page 8773 texte n° 102

GBR United Kingdom EH40/2005 Workplace exposure limits

NLD Nederland Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL Polska ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
EU OEL EU Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;

Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2016

			HYDROCA	RBONS, C3-4	
Threshold Limit Value Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	2400	1000	9600	4000
MAK	DEU	2400	1000	9600	4000
TLV	DNK	1200	500		
VLA	ESP		800		
HTP	FIN	1900	800	2400	1000
VLEP	FRA	1900	800		
WEL	GBR	1450	600	1810	750
OEL	NLD	1430			
NDS	POL	1900		3000	
TLV-ACGIH			1000		

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		5		10	INHAL				

Health - Derived no-effec		ONS, C9-C11, N-A	ALKANES, ISO	ALKANES, CY	/CLICS, < 2%	AROMATICS		
Health - Derived no-enec	Effects on	OIVIEL .			Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	125 mg/kg/d				-
Inhalation				185 mg/kg/d				
Skin			VND	125 mg/kg/d			VND	208 mg/kg/d

			CALCIUM D	IHYDROXIDE						
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15min	STEL/15min					
		mg/m3	ppm	mg/m3	ppm					
TLV	DNK	5								



Revision nr 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

systemic

VND

1 mg/m3

Page n. 5/12

systemic

VND

4 mg/m3

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VLA	ESP	5						
HTP	FIN	5						
VLEP	FRA	5						
WEL	GBR	5						
MAC	NLD	5						
NDS	POL	2						
OEL	EU	1		4		RESP		
TLV-ACGIH		5						
TLV-ACGIH		1		4		RESP		
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water Normal value in marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	nittent release ganisms Il compartment	DMEL		0,49 0,32 0,49 3 1080	Effects on	mg mg mg mg	/I /I /I	
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic

Inhalation

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

1 mg/m3

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

systemic

VND

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166). RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

4 mg/m3

9.1. Information on basic physical and chemical properties

Appearance aerosol Colour Light brown Odour Characteristic Odour threshold Not available Not applicable Melting point / freezing point Not available Initial boiling point < 35 °C Boiling range Not available Flash point < 0 °C Not available **Evaporation Rate** Not available Flammability of solids and gases Lower inflammability limit Not available



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 6/12

ALU CUT F520

Upper inflammability limit
Lower explosive limit
Upper explosive limit
Vapour pressure
Vapour density
Relative density
Not available

Solubility In water: insoluble, in acetone: soluble

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Not available
Explosive properties
Oxidising properties
Not available
Not available
Not available

9.2. Other information

VOC (Directive 2010/75/EC): 50,57 % - 368,81 g/l Propellant Flammability extremely flammable

Limit of propellant flammability 1,8-9,5%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

HYDROCARBONS, C3-4

May form flammable mixtures with: strong oxidising agents. Forms explosive mixtures with: strong oxidising agents, nitrates.

CALCIUM DIHYDROXIDE

Reacts violently developing heat on contact with: acids.

10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C3-4

Keep away from: strong oxidising agents. Avoid exposure to: sources of heat, naked flames, overheated surfaces, electrostatic discharges.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

Avoid exposure to: sources of heat, naked flames, light, ignition sources.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Avoid exposure to: heat, naked flames.

CALCIUM DIHYDROXIDE

Avoid exposure to: air, moisture.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C3-4

Avoid contact with: strong oxidising agents.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

Incompatible with: strong acids, strong bases, oxidising agents.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Incompatible with: strong acids, strong oxidising agents.

CALCIUM DIHYDROXIDE

May react dangerously if exposed to: acids, aluminium, brass.

10.6. Hazardous decomposition products



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 7/12

ALU CUT F520

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS When heated to decomposition releases: carbon oxides, toxic fumes.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

Not classified (no significant component) LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) Not classified (no significant component)

LD50 (Dermal) of the mixture:

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS LD50 (Oral) 5000 mg/kg Rat - OCSE 401 5000 mg/kg Rat - OECD 402 LD50 (Dermal)

CALCIUM DIHYDROXIDE

LD50 (Oral) > 2000 mg/kg Rat LD50 (Dermal) > 2500 mg/kg Rabbit

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

> 5000 mg/kg Rat - OECD 401 LD50 (Oral) LD50 (Dermal) > 5000 mg/kg Rabbit - OCSE 402 LC50 (Inhalation) > 5000 mg/mc Rat - OCSE 403

HYDROCARBONS, C3-4

LC50 (Inhalation) 658 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking. Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 8/12

ALU CUT F520

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Toxic for aspiration.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

LC50 - for Fish > 1000 mg/l/96h Onchorhynchus mykiss - OECD 203

EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna - OECD 202

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Scenedesmus subspicatus - OECD 202

CALCIUM DIHYDROXIDE

LC50 - for Fish 457 mg/l/96h Gasterosteus aculeatus
EC50 - for Crustacea 158 mg/l/48h Crangon septemspinosa

EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h Pseudokirchneriella subcapitata

HYDROCARBONS, C3-4

LC50 - for Fish 24,11 mg/l/96h Fish (QSAR calculation - butan - ECOSAR Program v1.00)

EC50 - for Crustacea 16,33 mg/l/48h Daphnia (isobutan, calculated with ECOSAR Program v1.00. EPI SuiteTM v4.00)

12.2. Persistence and degradability

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Solubility in water Insoluble

Rapidly biodegradable

CALCIUM DIHYDROXIDE

Solubility in water 1184 mg/l

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

Solubility in water Trascurable

HYDROCARBONS, C3-4

Solubility in water 24,4 - 60,4 mg/l

Rapidly biodegradable

12.3. Bioaccumulative potential

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

Partition coefficient: n-octanol/water

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

Partition coefficient: n-octanol/water > 3,5



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 9/12

ALU CUT F520

HYDROCARBONS, C3-4
Partition coefficient: n-octanol/water

2,03058 Log Kow (QSAR, KOWWIN, Butano)

12.4. Mobility in soil

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS Partition coefficient: soil/water 1.78

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



14.4. Packing group

ADR / RID, IMDG, IATA:



Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 10/12

ALU CUT F520

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: Limited Quantities: 1 L Tunnel restriction code: (D)

Special Provision: -

IMDG: EMS: F-D, S-U Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 100 Kg Packaging instructions: 130

Pass.: Maximum quantity: 25 Kg Packaging instructions: 130

Special Instructions: A802

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (VwVwS 2005)

WGK 3: Severe hazard to waters

15.2. Chemical safety assessment

No chemical safety assessment for the mixture was carried out.

CHEM

CENTRO DISTRIBUZIONE UTENSILI SCPA

Revision nr. 6 Dated 08/08/2019

Printed on 08/08/2019

Page n. 11/12

ALU CUT F520

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol 3 Aerosol, category 3

Flam. Liq. 3 Flammable liquid, category 3

Press. Gas Pressurised gas

Asp. Tox. 1 Aspiration hazard, category 1

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds

ΕN



Revision nr 6 Dated 08/08/2019

Printed on 08/08/2019

ΕN

Page n. 12/12

ALU CUT F520

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15.