

Trade name : Robacta Reamer
42,0411,8042
Revision date : 12.11.2014
Print date : 26.06.2015

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

Robacta Reamer
42,0411,8042

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

Relevant identified uses

Welding and soldering products (with flux coatings or flux cores), flux products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Fronius International GmbH

Street : Fronius Straße 5

Postal code/city : A-4642 Sattledt

Telephone : +43 (0)7242 241-0

Telefax : +43 (0)7242 241-8799

Internet: www.fronius.com

Information contact : msds.techsupport@fronius.com, welding.techsupport@fronius.com

1.4 Emergency telephone number

+44 (0) 20 76 35 91 91 during normal office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor/....

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2- METHYL-2H-ISOTHIAZOL-3-ONE (3:1).May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

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ALCOHOLS, C16-18, ETHOXYLATED ; CAS No. : 68439-49-6
Weight fraction : $\geq 1 - < 3 \%$
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; REACH registration No. : 01-2119487984-16-XXXX ; EC No. : 932-106-6 ; CAS No. : 68439-50-9

Weight fraction : $\geq 1 - < 3 \%$
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Chronic 3 ; H412

A MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9

Weight fraction : $< 0,0006 \%$
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon dioxide (CO₂) Carbon monoxide.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

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Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against Frost

Hints on joint storage

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/ personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL worker (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	294 mg/m ³
Limit value type :	DNEL worker (systemic) (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	2080 mg/kg
Limit value type :	DNEL worker (systemic) (GLUTARAL ; CAS No. : 111-30-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	0,25 mg/m ³

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

Safety goggles acc. EN 166.

Skin protection

Hand protection



Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) : 480 min.

Thickness of the glove material : 0.4 mm

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Remark : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device (EN 14387)
Type : A

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362 - Take off contaminated clothing. P264 - Wash hands thoroughly after handling.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : ivory

Odour : characteristic

Safety relevant basis data

Solidifying point :	(1013 hPa)		0 °C
Initial boiling point and boiling range :	(1013 hPa)	ca.	99 °C
Flash point :			not relevant
Ignition temperature :			not relevant
Lower explosion limit :			not relevant
Upper explosion limit :			not relevant
Density :	(20 °C)	ca.	0,99 g/cm ³
pH :		ca.	8,5
Maximum VOC content (EC) :			0 Wt %
Maximum VOC content (Switzerland) :			0 Wt %

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : ATEmix calculated
Exposure route : Oral
Effective dose : > 2000 mg/kg
Parameter : LD50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Exposure route : Oral
Species : Rat
Effective dose : > 300 - 2000 mg/kg
Method : OECD 401

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : > 2000 mg/kg
Parameter : LD50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation
Effective dose : > 20 mg/l
Parameter : LC50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Exposure route : Inhalation
Species : Rat
Effective dose : > 1,6 mg/l
Exposure time : 4 h
Method : OECD 403

Phrase not found

In case of inhalation

11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

11.4 Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation.

11.5 Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ALCOHOLS, C16-18, ETHOXYLATED ; CAS No. : 68439-49-6)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : ca. 2,7 mg/l
Exposure time : 48 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (ALCOHOLS, C16-18, ETHOXYLATED ; CAS No. : 68439-49-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 2,6 mg/l
Exposure time : 24 h

Chronic (long-term) daphnia toxicity

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Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : > 0,33 mg/l
Exposure time : 30 d
Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,77 - 1,75 mg/l
Exposure time : 21 d
Parameter : NOEC (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,078 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : LOEC (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,16 mg/l
Exposure time : 72 h
Method : OECD 201

Acute (short-term) algae toxicity

Parameter : EC50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,53 mg/l
Exposure time : 48 h
Parameter : EC50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,41 mg/l
Exposure time : 72 h
Method : OECD 201

Bacteria toxicity

Parameter : EC50 (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : > 10 g/l
Exposure time : 16,9 h
Method : DIN 38412 / part 8

12.2 Persistence and degradability

Biodegradation

Parameter : CO2 formation (% of the theoretical value) (ALCOHOLS, C12-C14, ETHOXYLATED (>5-20 EO) ; CAS No. : 68439-50-9)
Inoculum : Degree of elimination
Effective dose : > 60 %
Exposure time : 28 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : Biodegradation

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

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None

SECTION 13: Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

12 01 99 - wastes not otherwise specified.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients · 07. Hints on joint storage - Storage class

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16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX: adsorbable organohalogens
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)
EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
RCP: reciprocal calculation procedure
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
TRGS: Technische Regel für den Umgang mit Gefahrstoffen
VbF: Verordnung über brennbare Flüssigkeiten
VOC: volatile organic compound
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse (water hazardous class)

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Registered Substances
ECHA: Registered Substances
EC_Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.