
SAFETY DATA SHEET*according to Regulation (EC) No. 1907/2006***0893050008 - CUT+COOL CUTTING AND DRILLING OIL PERFECT - 400 ML**

Version 2.1	Revision Date 18.06.2015	Print Date 20.06.2015	DE / EN
	Date of last issue: 27.08.2014		
	Date of first issue: 11.06.2010		

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name	:	CUT+COOL CUTTING AND DRILLING OIL PERFECT - 400 ML
Product code	:	0893050008
SDS-Identcode	:	10033152

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

Use of the Substance/Mixture	:	Anti-friction agent and lubricant
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1.3 Details of the supplier of the safety data sheet

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany
Telephone	:	+49 7940 15 0
Telefax	:	+49 7940 15 10 00
Responsible/issuing person	:	E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin	:	+49 30 30686 790
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
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Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
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2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H222
H229

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Precautionary statements

:

Prevention:

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.

Storage:

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Remarks

: No hazardous ingredients

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice

: If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

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- If inhaled : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

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 : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry powder, Water mist, Water spray jet

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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Further information

: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Contaminated surfaces will be extremely slippery. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

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Advice on safe handling : For personal protection see section 8. Limit the stocks at work place. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Do not carry cloths that have come into contact with the product in your clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a dry, cool and well-ventilated place. Please observe the storage instructions for aerosols!

To be observed: TRG 300

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

German storage class : 2B, Compressed Gas (Aerosol cans)

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update

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isobutane	75-28-5	AGW: 2.400 mg/m ³ , 1.000 ppm DFG,	DE TRGS 900	2006-01-01
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Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Breathing apparatus with filter.
Type: Type A

Hand protection

Material : Neoprene

Material : PVA

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Safety glasses

Skin and body protection : Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Hygiene measures

- : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice

- : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
-

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: aerosol
Propellant	: isobutane
Colour	: yellow
Odour	: No data available
Odour Threshold	: No data available
Flash point	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Explosive properties	: No data available
Flammability	: solid / gaseous: Extremely flammable aerosol.
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: at 20 °C concentrate, Not applicable
Vapour pressure	: No data available

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Density : < 1,000 g/cm³ at 20 °C

Bulk density : No data available

Water solubility : immiscible
at 20 °C

Partition coefficient: n-octanol/water : No data available

Solubility in other solvents : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Impact sensitivity : No data available

Relative vapour density : No data available

Surface tension : No data available

Evaporation rate : No data available

Minimum ignition energy : No data available

Acid number : No data available

Refraction index : No data available

Miscibility in water : No data available

Solvent separation test : No data available

9.2 Other information

None known.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

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Materials to avoid : Strong bases, Strong acids, Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

No data available

Acute inhalation toxicity:

No data available

Acute dermal toxicity:

No data available

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

Skin irritation : Irritating to skin and mucous membranes

Serious eye damage/eye irritation

Eye irritation : May irritate eyes.

Respiratory or skin sensitisationSensitisation:

No data available

Germ cell mutagenicityGenotoxicity in vitro:

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No data available

Genotoxicity in vivo:

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

Aspiration toxicity

No data available

Neurological effects

No data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

No data available

Acute effects

No data available

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SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. This material and its container must be disposed of as hazardous waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
150110, packaging containing residues of or contaminated by dangerous substances

Waste key (used product):
150110, packaging containing residues of or contaminated by dan-

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gerous substances

Disposal of uncleaned packaging

: Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADR : 1950
RID : 1950
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group**ADR**

Classification Code : 5F
Labels : 2.1
Limited quantity : 1,00 L
Tunnel restriction code : (D)

RID

Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1
Limited quantity : 1,00 L

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IMDG

Labels	:	2.1
EmS Number	:	F-D, S-U

IATA

Packing instruction (cargo aircraft)	:	203
Packing instruction (passenger aircraft)	:	203
Packing instruction (LQ)	:	Y203
Labels	:	2.1

14.5 Environmental hazards
ADR

Environmentally hazardous	:	no
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RID

Environmentally hazardous	:	no
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IMDG

Marine pollutant	:	no
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IATA

Environmentally hazardous	:	no
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14.6 Special precautions for user

see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

	: Update:	Quantity 1	Quantity 2
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances			
	Extremely flammable	10 t	50 t
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Update:		
	FLAMMABLE AEROSOLS	150 t	500 t

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Update:

Petroleum products: (a) gaso-
lines and naphthas, (b) ker-
osenes (including jet fuels),
(c) gas oils (including diesel
fuels, home heating oils and
gas oil blending streams)

2.500 t

25.000 t

National legislation

Water contaminating class
(Germany) : WGK 1 (slightly water endangering)
VwVwS

Other regulations : Observe national used protectional regulations.

Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R12 Extremely flammable.

Full text of H-Statements referred to under sections 2 and 3.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Other information

DFG Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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