Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

CONTACT OS OXIDATION PREVENTION - 200 ML
Art.: 0893 61

Use of the substance/preparation
Kontaktspray

Company/undertaking identification
A. Wuerth GmbH & Co. KG, Reinhold-Würth-Str. 12-17, D-74653 Künzelsau
Telephone ++49 (0)7940/15-0, Fax ++49 (0)7940/15 10 00

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone
Advisory office in case of poisoning:
Tel.:
+49 30 / 19240 Berlin
Telephone number of the company in case of emergencies:
Tel. 7.00h - 18.00h ++49 (0)7940/15-2552

2. HAZARDS IDENTIFICATION

To people
See point 11 and 15.
Preparation is classified as hazardous in the sense of directive 1999/45/EC.
Product is extremely flammable.
Possible build up of explosive/highly flammable vapour/air mixture.
Danger of bursting (explosion) when heated.
Irritation of the eyes
Vapours may cause drowsiness and dizziness
To the environment
See point 12.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Endangerment of potable water possible.

REGULATION (EC) No 648/2004

30 % and more
aliphatic hydrocarbons

BHT

3. COMPOSITION/INFORMATION ON INGREDIENTS

Aerosol

Chemical name			
content %	**Symbol**	**R-phrases**	**EINECS, ELINCS**
	Registration number (ECHA)	**DNEL**	**PNEC**

Propan-2-ol			
20 - 40	F/Xi	11-36-67	200-661-7

Naphtha (petroleum), hydrotreated heavy			
10 - 20	Xn	10-65-66-67	265-150-3

Naphtha (petroleum), hydrodesulfurized light, dearomatized			
10 -< 20	F/Xi/Xn/N	11-38-51-53-65-67	295-434-2

Butan-2-ol			
10 -< 20	Xi	10-36/37-67	201-158-5

Carbon dioxide		Substance for which an EU exposure limit value applies.
1 - 5		204-696-9

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

4.1 Inhalation
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
If the person is unconscious, place in a stable side position and consult a doctor.

4.2 Eye contact
Remove contact lenses.
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.3 Skin contact
Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion
Typically no exposure pathway.
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.
Danger of aspiration.
In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.5 Special resources necessary for first aid
n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
CO2
Extinction powder
Water jet spray
Large fire:
Water jet spray
Alcohol resistant foam
Cool container at risk with water.

5.2 Extinguishing media which shall not be used for safety reasons
High volume water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
In case of fire the following can develop:
Oxides of carbon
Oxides of sulphur

Oxides of nitrogen
Hydrocarbons
Toxic pyrolysis products.
Danger of explosion by prolonged heating.
Explosive vapour/air mixture
Dangerous vapours heavier than air.
In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.4 Special protective equipment for fire-fighters

In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply
According to size of fire
Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

If spray or gas escapes, ensure ample fresh air is available.
Without adequate ventilation, formation of explosive mixtures may be possible.
Active substance:
Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1
Ensure good ventilation.
Avoid inhalation of the vapours.
Avoid contact with eyes or skin.
Keep away from sources of ignition - Do not smoke.
Do not use on hot surfaces.
Take measures against electrostatic charging, if appropriate.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Wash hands before breaks and at end of work.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Observe special regulations for aerosols.
Do not store with oxidizing agents.
Do not store with acids.

Special storage conditions:

See point 10
Store cool
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well ventilated place.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

GB	Chemical Name	Propan-2-ol	Content %:20 - 40
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	---	
BMGV: ---	Other information: ---		

GB	Chemical Name	Naphtha (petroleum), hydrotreated heavy	Content %:10 - 20
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

GB	Chemical Name	Naphtha (petroleum), hydrodesulfurized light, dearomatized	Content %:10 - < 20
WEL-TWA: 1200 mg/m3 (> C7 normal and branched chain alkanes) (WEL), 1500 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

GB	Chemical Name	Butan-2-ol	Content %:10 - < 20
WEL-TWA: 100 ppm (308 mg/m3)	WEL-STEL: 150 ppm (462 mg/m3)	---	
BMGV: ---	Other information: ---		

GB	Chemical Name	Carbon dioxide	Content %:1 - 5
WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EC)	WEL-STEL: 15000 ppm (27400 mg/m3) (WEL)	---	
BMGV: ---	Other information: ---		

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-terme exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls
8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Respiratory protection:
Normally not necessary.
If OES or MEL is exceeded.
Filter A2 P2 (EN 14387)
At high concentrations:
Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
Hand protection:
Solvent resistant protective gloves (EN 374).
If applicable
Safety gloves made of butyl (EN 374)
Protective Neopren gloves (EN 374).
Protective nitrile gloves (EN 374)
Protective Viton gloves (EN 374)
Protective hand cream recommended.
Eye protection:

Tight fitting protective goggles with side protection (EN 166).
Skin protection:
Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
Selection made for preparations according to the best available knowledge and information on the ingredients.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Propellant gas:	
Carbon dioxide	
Colour:	According to specification
Odour:	Characteristic
pH-value undiluted:	n.a.
Boiling point/boiling range (°C):	n.a.
Melting point/melting range (°C):	Not detected
Flash point (°C):	< 0, Active substance
Ignition temperature:	200°C
Autoflammability:	No
Oxidising properties:	No
Minimum limit of explosion:	0,9 Vol%
Maximum limit of explosion:	12,7 Vol%

Product is not explosive.
Possible build up of explosive/highly flammable vapour/air mixture.

Vapour pressure:	4,75 - 5,75 bar (20°C)
Density (g/ml):	0,767 g/cm3 (20°C)
Water solubility:	Not miscible
Vapour density (air = 1):	Vapours heavier than air.

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7
Stable when handled and stored correctly.
Heating, open flame, ignition sources
Pressure increase will result in danger of bursting.

Materials to avoid

Avoid contact with strong oxidizing agents.

Hazardous decomposition products

No decomposition when used as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	See point 15.

Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	Possible

Further information

The product was not tested.
Classification according to calculation procedure.
The following may occur:
Irritation of the respiratory tract
Coughing
Headaches
Dizziness
Effects/damages the central nervous system
Coordination disorders
Unconsciousness
With long-term contact:
Product removes fat
Drying of the skin.
Dermatitis (skin inflammation)
Ingestion:
Nausea
Vomiting
Danger of aspiration.
Oedema of the lungs
Other dangerous properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

The product was not tested.

Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)

Persistence and degradability:
Readily biodegradable *, **
> 99,9% OECD 303A, (95%/21d mod. OECD-screening-test) ***

Behaviour in sewage plants:	According to the recipe, contains no AOX.

Aquatic toxicity:
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecological toxicity:	n.av.
Mobility:	n.av.

Accumulation:
Concentration in organisms possible. *
* Naphtha (petroleum), hydrodesulfurized light, dearomatized
** Naphtha (petroleum), hydrotreated heavy
*** Propan-2-ol

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
14 06 03 other solvents and solvent mixes
16 05 04 gases in pressure containers (including halons) containing dangerous substances
Recommendation:
Pay attention to local and national official regulations
E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1
Pay attention to local and national official regulations
Recommendation:

Do not perforate, cut up or weld uncleaned container.
Recycling
15 01 04 metallic packaging

14. TRANSPORT INFORMATION

General statements

UN-Number: 1950

Road/Rail-transport (ADR/RID)

Class/packing group: 2/-
UN 1950 AEROSOLS
Limited Quantities
Classification code: 5F
LQ: 2

Transport by sea

IMDG-code: 2.1/- (class/packing group)
EmS: F-D, S-U
Marine Pollutant: n.a
AEROSOLS
Limited Quantities

Transport by air

IATA: 2.1/-/- (class/secondary danger/packing group)
Aerosols, flammable

Additional information:

Danger code and packing code on request.

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: F+/Xi
Indications of danger:
Extremely flammable
Irritant
R-phrases:
36 Irritating to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.
S-phrases:
23.c Do not breathe spray.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/35 Do not empty into drains; dispose of this material and its container in a safe way.
51 Use only in well-ventilated areas.

Additions:
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep out of the reach of children.
Without adequate ventilation, formation of explosive mixtures may be possible.
Observe restrictions: Yes
Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC
Observe youth employment law (German regulation).
VOC (1999/13/EC): 705 g/l

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany):	2 B
Revised points:	2, 15

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
10 Flammable.
65 Harmful: may cause lung damage if swallowed.
65 Also harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
38 Irritating to skin.
51 Toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.
36/37 Irritating to eyes and respiratory system.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked
WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-terme exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)
VbF = Regulations for flammable liquids (Austria)
WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water
VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds
VwVwS = Administrative Order relating to substances hazardous to water (Germany)
The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.
These statements were made by:

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