

OKS 2511

Version 1.0

Revision Date 28.06.2016

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

1.1 Product identifier

Product name : OKS 2511

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

Use of the Substance/Mixture : Anticorrosion additive
Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599

E-mail address : mcm@oks-germany.com
Responsible/issuing person

National contact :

1.4 Emergency telephone number

+49 8142 3051 517

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.
Skin irritation, Category 2	H315: Causes skin irritation.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :   

Signal word : Danger



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Hazard statements	: H222 H229 H315 H411	Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P210 P211 P251 P273 P280 Storage: P410 + P412	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature	: Active substance with propellant Metal powder Solvent
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Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
zinc powder - zinc dust (pyrophoric)	7440-66-6 231-175-3 030-001-01-9	N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
xylene	1330-20-7 215-535-7 601-022-00-9	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315	>= 10 - < 12,5
acetone	67-64-1 200-662-2 606-001-00-8	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>= 3 - < 10
solvent naphtha (petroleum), medium	64742-88-7 265-191-7	Xn; R65	Asp. Tox. 1; H304	>= 1 - < 10

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aliph.	649-405-00-X			
Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 / 01- 2119455851-35	R10 Xi; R37 N; R51/53 Xn; R65 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H335, H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0,25 - < 1
Substances with a workplace exposure limit :				
butane	106-97-8 203-448-7 601-004-00-0	F+; R12	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 30 - < 50
propane	74-98-6 200-827-9 601-003-00-5	F+; R12	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 10 - < 20
isobutane	75-28-5 200-857-2 601-004-00-0	F+; R12	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 1 - < 10
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 / 01- 2119485493-29-XXXX			>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	R10	Flam. Liq. 3; H226	>= 1 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.



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- In case of eye contact : If eye irritation persists, consult a specialist.
Rinse immediately with plenty of water, also under the eyelids,
for at least 10 minutes.
- If swallowed : Keep respiratory tract clear.
Rinse mouth with water.
Move the victim to fresh air.
Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local
circumstances and the surrounding environment.
ABC powder
- Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Fire may cause evolution of:
Carbon oxides
Metal oxides
- : Fire Hazard
Do not let product enter drains.
Contains gas under pressure; may explode if heated.
Beware of vapours accumulating to form explosive
concentrations. Vapours can accumulate in low areas.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
In the case of respirable dust and/or fumes, use self-contained
breathing apparatus.
Exposure to decomposition products may be a hazard to
health.
- Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This
must not be discharged into drains.
Cool containers/tanks with water spray.



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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- Environmental precautions : Do not allow contact with soil, surface or ground water.
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

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.
Non-sparking tools should be used.

6.4 Reference to other sections

- For personal protection see section 8.
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7. Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Use only in an area containing explosion proof equipment.
Do not use in areas without adequate ventilation.
Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not use sparking tools.
These safety instructions also apply to empty packaging which may still contain product residues.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.
Store in accordance with the particular national regulations.

German storage class : 2B Aerosol cans and lighters

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m ³	2006-01-01	DE TRGS 900
Further information:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m ³	2006-01-01	DE TRGS 900
Further information:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
xylene	1330-20-7	TWA	50 ppm 221 mg/m ³	2000-06-16	2000/39/EC
Further information:	skin: Identifies the possibility of significant uptake through the skin Indicative				
xylene	1330-20-7	STEL	100 ppm 442 mg/m ³	2000-06-16	2000/39/EC
Further information:	skin: Identifies the possibility of significant uptake through the skin Indicative				
xylene	1330-20-7	AGW	100 ppm 440 mg/m ³	2010-08-04	DE TRGS 900
Further information:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) Skin absorption				
xylene	1330-20-7	AGW	200 mg/m ³	2009-02-16	DE TRGS 900
Further information:	Group-AGW: Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900				
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m ³	2006-01-01	DE TRGS 900

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Further information:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m ³	2012-09-13	DE TRGS 900
Further information:	AGS: Commission for dangerous substances When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
acetone	67-64-1	TWA	500 ppm 1.210 mg/m ³	2000-06-16	2000/39/EC
Further information:	Indicative				
acetone	67-64-1	AGW	500 ppm 1.200 mg/m ³	2015-03-02	DE TRGS 900
Further information:	AGS: Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
solvent naphtha (petroleum), medium aliph.	64742-88-7	AGW	600 mg/m ³	2009-02-16	DE TRGS 900
Further information:	Group-AGW: Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900				
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm 275 mg/m ³	2000-06-16	2000/39/EC
Further information:	skin: Identifies the possibility of significant uptake through the skin Indicative				
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m ³	2000-06-16	2000/39/EC
Further information:	skin: Identifies the possibility of significant uptake through the skin Indicative				
2-methoxy-1-methylethyl acetate	108-65-6	AGW	50 ppm 270 mg/m ³	2006-01-01	DE TRGS 900
Further information:	DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
Low boiling point naphtha - unspecified	64742-95-6	AGW	100 mg/m ³	2009-02-16	DE TRGS 900
Further information:	Group-AGW: Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900				

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Update
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xylene	1330-20-7	xylene: 1,5 mg/l (Blood)	Immediately after exposition or after working hours	2013-09-19
xylene	1330-20-7	methylhippuric acid (all isomers): 2 g/l (Urine)	Immediately after exposition or after working hours	2013-09-19
acetone	67-64-1	Acetone: 80 mg/l (Urine)	Immediately after exposition or after working hours	2004-08-01

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).
 Maintain air concentrations below occupational exposure standards.
 Use only in an area equipped with explosion proof exhaust ventilation.
 It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
 Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
 none

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
 Recommended Filter type:
 : Organic gas and low boiling vapour type
- Hand protection : Wear protective gloves.
 The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
 The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
 In case of contact through splashing:
 : Nitrile rubber
 Protective index Class 1
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.



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Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Environmental exposure controls

General advice : Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol
Colour : grey
Odour : characteristic
Odour Threshold : No data available
pH : No data available
Melting point/range : No data available
Boiling point/boiling range : -44,00 °C
Flash point : -60,00 °C
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Lower explosion limit : 1,1 %(V)
Upper explosion limit : 10,9 %(V)
Vapour pressure : 4.000 hPa, 20 °C
Relative vapour density : No data available
Density : 0,80 g/cm³, 20 °C
Water solubility : immiscible
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Explosive properties : Not explosive



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Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Bulk density : No data available

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : This information is not available.

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method

: Respiratory disorder, Inhalation may provoke the following symptoms:

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

: Redness, Local irritation

Skin corrosion/irritation : Irritating to skin.

Serious eye damage/eye irritation : Contact with eyes may cause irritation.

Respiratory or skin sensitisation : This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available

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Genotoxicity in vivo	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Repeated dose toxicity	: This information is not available.
Aspiration toxicity	: This information is not available.
Further information	: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Components:

zinc powder - zinc dust (pyrophoric) :

Acute oral toxicity	: LD50 Oral: > 2.000 mg/kg, Rat
Acute inhalation toxicity	: LC50: > 5,4 mg/l, 4 h, Rat,
Skin corrosion/irritation	: Result: No skin irritation
Serious eye damage/eye irritation	: Result: No eye irritation

acetone :

Acute oral toxicity	: LD50 Oral: 5.800 mg/kg, Rat
Acute inhalation toxicity	: LC50: 76 mg/l, 4 h, Rat,
Acute dermal toxicity	: LD50 Dermal: 20.000 mg/kg, Rabbit

Low boiling point naphtha - unspecified :

Skin corrosion/irritation	: Result: Repeated exposure may cause skin dryness or cracking.
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butane :

Serious eye damage/eye irritation	: Contact with eyes may cause irritation.
Further information	: Information given is based on data on the components and the toxicology of similar products.

n-butyl acetate :

Acute oral toxicity	: LD50 Oral: 10.760 mg/kg, Rat
Skin corrosion/irritation	: Result: Repeated exposure may cause skin dryness or cracking.
STOT - single exposure	: Exposure routes: Inhalation Assessment: May cause drowsiness or dizziness.



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12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	No data available
Toxicity to algae	:	No data available
Toxicity to bacteria	:	No data available

Components:

acetone :

Toxicity to fish	:	LC50: 5.540 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 12.600 mg/l, 48 h, Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biodegradability	:	No data available
Physico-chemical removability	:	No data available

Components:

n-butyl acetate :

Biodegradability	:	Result: Readily biodegradable
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
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Components:

n-butyl acetate :

Bioaccumulation	:	No data available
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12.4 Mobility in soil

Product:

Mobility	:	No data available
Distribution among environmental compartments	:	No data available

12.5 Results of PBT and vPvB assessment



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Product:

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

Product:

Additional ecological information : Toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
: Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging : Offer empty spray cans to an established disposal company.
Pressurized container: Do not pierce or burn, even after use.

14. Transport information

14.1 UN number

ADR : 1950
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS (zinc powder - zinc dust (pyrophoric), Low boiling point naphtha - unspecified)
IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR :
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)
IMDG
Labels : 2.1
EmS Number : F-D, S-U
IATA
Packing instruction (cargo) : 203



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aircraft)
Labels : 2.1

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : no

14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation : 96/82/EC Update:
Extremely flammable
8
Quantity 1: 10 t
Quantity 2: 50 t

: 96/82/EC Update:
Dangerous for the environment
9b
Quantity 1: 200 t
Quantity 2: 500 t

: 96/82/EC Update:
Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils
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Quantity 1: 2.500 t
Quantity 2: 25.000 t

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

TA Luft List (Germany) : Total dust: Not applicable
Inorganic substances in powdered form: portion Class 3:
12,89 %
Inorganic substances in vapour or gaseous form: Not

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applicable
Organic Substances: Not applicable
Carcinogenic substances: portion Class 3: 0,9 %
Mutagenic: Portion other substances: 0,9 %
Toxic to reproduction: Not applicable

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

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

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further information

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