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

1.1 Product identifier

Product name : OKS 2521

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

Use of the Sub: : Anticorrosion additive

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : OKS Spezialschmierstoffe GmbH

Ganghoferstr. 47

D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599

E-mail address of person

responsible for the SDS

National contact

1.4 Emergency telephone number

Emergency telephone

number

: +49 8142 3051 517

mcm@oks-germany.com

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.

Skin irritation, Category 2 H315: Causes skin irritation.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters air-

ways.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting ef-

fects.

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.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label: ethylbenzene

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

Chemical nature : Active agent with propellant and solvent.

Metal powder

Hazardous components

Chemical name	CAS-No.	Classification	Concentration	Concentration
	EC-No.		limits	(% w/w)
			M-Factor	, ,



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	Index-No.		Notes	
	Registration number			
xylene	1330-20-7 215-535-7	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312		>= 30 - < 50
	601-022-00-9	Skin Irrit.2; H315 Asp. Tox.1; H304		
acetone	67-64-1	Flam. Liq.2; H225 Eye Irrit.2; H319		>= 1 - < 10
	200-662-2	STOT SE3; H336		
	606-001-00-8 01-2119471330-49- XXXX			
ethylbenzene	100-41-4, 100-41-4	Flam. Liq.2; H225 Acute Tox.4; H332		>= 1 - < 10
	202-849-4 601-023-00-4	STOT RE2; H373 Asp. Tox.1; H304		
	33. 323 33 1			
zinc powder -zinc dust (stabilised)		Aquatic Acute1; H400	M-Factor: 1/1	>= 0,25 - < 1
	231-175-3	Aquatic Chronic1; H410		
	030-001-01-9 01-2119467174-37- XXXX			
Substances with a worl	volace exposure limit :			
propane	74-98-6	Flam. Gas1; H220		>= 20 - < 30
	200-827-9	Press. GasCompr. Gas; H280	Note U (table	
	601-003-00-5 01-2119486944-21- XXXX		3.1)	
butane	106-97-8	Flam. Gas1; H220 Press. GasCompr.		>= 10 - < 20
	203-448-7	Gas; H280	Note U (table 3.1), Note C	
	601-004-00-0 01-2119474691-32- XXXX			
isobutane	75-28-5	Flam. Gas1; H220		>= 1 - < 10
	200-857-2	Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	
	601-004-00-0		,, iiii 2	



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01-2119485395-27-XXXX

For explanation of abbreviations see section 16.

SECTION 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 respira-

tion.

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.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

If easy to do, remove contact lens, if worn. If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.

Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water.

Aspiration hazard if swallowed - can enter lungs and cause

damage.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

Unconsciousness

Dizziness Drowsiness Headache Nausea Tiredness

Skin contact may provoke the following symptoms:

Erythema

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Aspiration may cause pulmonary oedema and pneumonitis.

Risks : Risk of product entering the lungs on vomiting after ingestion.

Health injuries may be delayed.

Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Fire may cause evolution of:

Carbon oxides

Fire Hazard

Do not let product enter drains.

Contains gas under pressure; may explode if heated.

Beware of vapours accumulating to form explosive concentra-

tions. 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.

SECTION 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.



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Do not breathe vapours or spray mist.

Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective

equipment may intervene.

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 material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : 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 ap-

plication 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.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.



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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 na-

tional regulations.

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this sub-

stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
xylene	1330-20-7	TWA	50 ppm	2000/39/EC	
			221 mg/m3	(2000-06-16)	
Further information	Identifies the	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm	2000/39/EC	
			442 mg/m3	(2000-06-16)	
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative	
		AGW	100 ppm	DE TRGS	
			440 mg/m3	900	
				(2010-08-04)	
Peak-limit: excursion factor (category)	2;(II)				
Further information	Senate comm	nission for the review	of compounds at the work p	ace 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				
		AGW	200 mg/m3	DE TRGS	
				900	
				(2009-02-16)	
Peak-limit: excursion factor (category)	2;(II)				
Further information	Group exposu	re limit for hydrocart	oon solvent mixtures, Commi	ssion for dan-	
	gerous substances, See also No. 2.9 of the TRGS 900				
propane	74-98-6	AGW	1.000 ppm	DE TRGS	
			1.800 mg/m3	900	
				(2006-01-01)	
Peak-limit: excur-	4;(II)				
sion factor (catego-					



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ry)					
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900 (2006-01-01)	
Peak-limit: excursion factor (category)	4;(II)				
Further information		nission for the review (MAK-commission).	of compounds at the work p	lace dangerous	
isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900 (2006-01-01)	
Peak-limit: excursion factor (category)	4;(II)				
Further information		nission for the review (MAK-commission).	of compounds at the work p	lace dangerous	
acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC (2000-06-16)	
Further information	Indicative				
		AGW	500 ppm 1.200 mg/m3	DE TRGS 900 (2015-03-02)	
Peak-limit: excursion factor (category)	2;(I)				
Further information	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				
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC (2000-06-16)	
Further information	Identifies the	nossibility of signific	ant uptake through the skin,		
		STEL	200 ppm 884 mg/m3	2000/39/EC (2000-06-16)	
Further information	Identifies the	possibility of signific	ant uptake through the skin,	Indicative	
		AGW	20 ppm 88 mg/m3	DE TRGS 900 (2015-11-06)	
Peak-limit: excursion factor (category)	2;(II)				
Further information	for the health a limit value: o When there is	(MAK-commission). deviations in value a	of compounds at the work p , European Union (The EU h nd peak limit are possible), S e OEL and biological tolerand hild	as established Skin absorption,	
		AGW	200 mg/m3	DE TRGS	

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	900 (2009-02-16))
Peak-limit: excur-	2;(II)	
sion factor (catego-		
ry)		
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dan-	
	gerous substances, See also No. 2.9 of the TRGS 900	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	xylene: 1,5 mg/l (Blood)	Immediately after exposure or after working hours	TRGS 903
		methylhippuric acid (all isomers): 2 g/l (Urine)	Immediately after exposure or after working hours	TRGS 903
acetone	67-64-1	Acetone: 80 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
ethylbenzene	100-41-4, 100-41-4	mandelic acid + phenylglyoxylic acid: 250 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
zinc powder -zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
zinc powder -zinc dust (stabi- lised)	Fresh water	0,0206 mg/l
	Fresh water sediment	117,8 mg/kg
	Marine water	0,0061 mg/l
	Marine sediment	56,5 mg/kg
	Microbiological Activity in Sewage Treat-	0,052 mg/l
	ment Systems	
	Soil	35,6 mg/kg

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment



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Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Fluorinated rubber

Protective index : Class 1

Remarks : 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.

Respiratory protection : Respirator with combination filter for vapour/particulate (EN

141)

Short term only

Filter type : ABEK-P3-filter

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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 spe-

cific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : silver

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : -161 °C

(1.013 hPa)

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Not applicable

Flash point : -60 °C

Method: Abel-Pensky

Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit : 10,9 %(V)

Lower explosion limit : 1,1 %(V)

Vapour pressure : 5.500 hPa (20 °C)

not determined

Relative vapour density : No data available

Density : 0,66 g/cm3

(20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : > 200 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 20,5 mm2/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Self-ignition : No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

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

water

Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:,

Respiratory disorder, Local irritation, Respiratory disorders

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Remarks: Harmful in contact with skin.

Symptoms: Redness, Local irritation

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Components:

xylene:

Acute inhalation toxicity : LC50 (Rat): 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg

Method: Converted acute toxicity point estimate

LD50 Dermal (Rat): > 1.000 mg/kg

Assessment: The component/mixture is moderately toxic after

single contact with skin.

acetone:

Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg

ethylbenzene:

Acute inhalation toxicity : (Rat): 17,5 mg/l

Exposure time: 4 h

zinc powder -zinc dust (stabilised):

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat): > 5,41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas

isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas



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Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Components:

xylene:

Result: Severe skin irritation

acetone:

Result: Repeated exposure may cause skin dryness or cracking.

zinc powder -zinc dust (stabilised):

Species: Rabbit

Assessment: No skin irritation Result: No skin irritation

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

Components:

acetone:

Species: Rabbit Result: Eye irritation

zinc powder -zinc dust (stabilised):

Species: Rabbit Exposure time: 24 h

Assessment: No eye irritation Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: This information is not available.

Components:

zinc powder -zinc dust (stabilised):

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

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Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

zinc powder -zinc dust (stabilised):

Germ cell mutagenicity- As-

mutagenic effects.

sessment

Carcinogenicity

Product:

Remarks: No data available

Components:

zinc powder -zinc dust (stabilised):

Carcinogenicity - Assess-

: No evidence of carcinogenicity in animal studies.

Tests on bacterial or mammalian cell cultures did not show

ment

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

: Remarks: No data available

Components:

zinc powder -zinc dust (stabilised):

Reproductive toxicity - As- : No toxicity to reproduction

sessment No effects on or via lactation

STOT - single exposure

Components:

acetone:

Exposure routes: Inhalation

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Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

ethylbenzene:

Target Organs: hearing organs

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Product:

Remarks: This information is not available.

Components:

ethylbenzene:

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Components:

xylene:

May be fatal if swallowed and enters airways.

ethylbenzene:

May be fatal if swallowed and enters airways.

zinc powder -zinc dust (stabilised):

No aspiration toxicity classification

Further information

Product:

Remarks: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.



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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish Remarks: Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Remarks: No data available Toxicity to algae

Toxicity to microorganisms

Remarks: No data available

Components:

zinc powder -zinc dust (stabilised):

Toxicity to fish LC50 (Oncorhynchus kisutch (coho salmon)): 0,727 mg/l

> Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,937 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

M-Factor (Acute aquatic tox- :

icity)

M-Factor (Chronic aquatic

toxicity)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

Biodegradability Remarks: No data available

Physico-chemical removabil- : Remarks: No data available

Components:

acetone:



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Biodegradability : Result: rapidly biodegradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: 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).

Components:

acetone:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 0,2

propane:

Partition coefficient: n-

octanol/water

log Pow: 2,36

butane:

Partition coefficient: n-

octanol/water

log Pow: 2,89

Method: OECD Test Guideline 107

isobutane:

Partition coefficient: n-

log Pow: 2,88

octanol/water

Method: OECD Test Guideline 107

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environ-

mental compartments

Remarks: No data available

12.5 Results of PBT and vPvB assessment

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..

according to Regulation (EC) No. 1907/2006 - DE



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12.6 Other adverse effects

Product:

Additional ecological infor-

mation

: Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance 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 : Packaging that is not properly emptied must be disposed of as

the unused product.

Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.

The following Waste Codes are only suggestions:

SECTION 14: Transport information

14.1 UN number

ADR : UN 1950 IMDG : UN 1950 IATA : UN 1950

14.2 UN proper shipping name

ADR : AEROSOLS IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADR : 2 IMDG : 2.1 IATA : 2.1

14.4 Packing group

ADR

Packing group : Not assigned by regulation



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Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

IMDG

Packing group : Not assigned by regulation

Labels : 2.1

EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen:

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

203

Labels : Flammable Gas

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA (Passenger)

Environmentally hazardous : no

IATA (Cargo)

Environmentally hazardous : no

14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

SECTION 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).

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable



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Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

are provided and use of certain dangerous subs

preparations and articles (Annex XVII)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

: ethylbenzene

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2
P3a FLAMMABLE AEROSOLS 150 t 500 t

P₅c

P2

34 Petroleum products: (a) 2.500 t 25.000 t

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 (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Water contaminating class

(Germany)

WGK 2 significantly water endangering

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:

Not applicable

Inorganic substances in powdered form:

portion Class 3: 0,5 %

Inorganic substances in vapour or gaseous form:

Not applicable

Organic Substances: others: 52,37 %



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Carcinogenic substances:

Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial Volatile organic compounds

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 99,5 %

Remarks: VOC content excluding water

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. Harmful in contact with skin. H312 H315 Causes skin irritation. Causes serious eye irritation. H319 Harmful if inhaled. H332 May cause drowsiness or dizziness. H336

H373 May cause damage to organs through prolonged or repeated

exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations



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Note C : Some organic substances may be marketed either in a specif-

ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub-

stance is a specific isomer or a mixture of isomers.

Note U (table 3.1) : When put on the market gases have to be classified as "Gas-

es under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is pack-

aged and therefore has to be assigned case by case.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Aerosol 1 H222, H229 Based on product data or assessment

Skin Irrit. 2 H315 Calculation method

Asp. Tox. 1 H304 Based on product data or assessment
Aquatic Chronic 3 H412 Calculation method

according to Regulation (EC) No. 1907/2006 - DE



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