Safety data sheet according to 1907/2006/EC, Article 31

MEMI®

Printing date 05.11.2019 Version number 5 Revision: 05.11.2019

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

· 1.1 Product identifier

· Trade name: **Rust Dissolver Spray**

90205, 90240 Article number:

 1.2 Relevant identified uses of the substance or mixture and

uses advised against No further relevant information available.

Application of the substance / the

Penetrating oil mixture

· 1.3 Details of the supplier of the safety data sheet

 Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Laboratory

Lechstrasse 28 D 90451 Nürnberg

Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de

· Further information obtainable from:

· 1.4 Emergency telephone

number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform. Centre

Medical Toxicology Unit

Avalonley Road London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Aquatic Chronic 3 H412

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 · Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07

· Signal word Danger

Hazard-determining components

of labelling:

naphtha (petroleum), hydrodesulphurized heavy

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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Trade name: Rust Dissolver Spray		
Trade name. Rust Disserver opray		
		(Contd. of page 1)
		(petroleum), hydrodesulfurized
		(petroleum), hydrotreated light naphthenic
· Hazard statements		9 Extremely flammable aerosol. Pressurised container: May burst if heated.
	H315	Causes skin irritation.
	H336	May cause drowsiness or dizziness.
	H412	Harmful to aquatic life with long lasting effects.
· Precautionary statements	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
	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.
	P261	Avoid breathing spray.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves.
	P302+P35	52 IF ON SKIN: Wash with plenty of water.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P410+P41	12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
 Additional information: 	Buildup of	explosive mixtures possible without sufficient ventilation.
2.3 Other hazards	•	,
· Results of PBT and vPvB assessr	nent	
· PBT:	Not applic	able.
· <u>vPvB:</u>	Not applic	

SECTION 3: Composition/information on ingredients

• 3.2 Chemical characterisation: Mixtures
• Description: Mixture Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	12.5-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane State Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-25%
CAS: 64742-82-1 EC number: 919-164-8 Reg.nr.: 01-2119473977-17	naphtha (petroleum), hydrodesulphurized heavy STOT RE 1, H372; Asp. Tox. 1, H304 Aquatic Chronic 3, H412	12.5-25%
EC number: 925-653-7	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
	(Coi	ntd. on page 3)



≥30%

≥5 - <15%

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Trade name:	Rust Dissolver	Spray

		(Co	ntd. of page 2)
CAS:	64742-81-0	Kerosine (petroleum), hydrodesulfurized	<12.5%
	CS: 265-184-9	♦ Asp. Tox. 1, H304	
Index	number: 649-423-00-8	Aquatic Chronic 2, H411	
		♦ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS:	64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	<12.5%
EINE	CS: 265-156-6	♦ Asp. Tox. 1, H304	
	number: 649-466-00-2		
Reg.r	nr.: 01-2119480375-34-xxxx		
CAS:	106-97-8	butane	1-5%
EINE	CS: 203-448-7	Flam. Gas 1, H220; Flam. Liq. 1, H224	
Index	number: 601-004-00-0	Press. Gas (Comp.), H280	
Reg.r	nr.: 01-2119474691-32		
CAS:	111-76-2	2-butoxyethanol	1-5%
EINE	CS: 203-905-0	♦ Acute Tox. 3, H311; Acute Tox. 3, H331	
	k number: 603-014-00-0	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.r	nr.: 01-2119475108-36		
· Regu	lation (EC) No 648/2004 on (detergents / Labelling for contents	

SECTION 4: First aid measures

aliphatic hydrocarbons

aromatic hydrocarbons

· Additional information:

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for

transportation.

Immediately wash with water and soap and rinse thoroughly. · After skin contact:

If skin irritation continues, consult a doctor.

Rinse opened eye for several minutes under running water. After eye contact: After swallowing:

Do not induce vomiting; call for medical help immediately.

For the wording of the listed hazard phrases refer to section 16.

 4.2 Most important symptoms and effects, both acute and

delayed Breathing difficulty

Headache Dizziness Dizziness Nausea

Profuse sweating

· Information for doctor: Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)

a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal

dysfunction, state of excitement, coma.

b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation,

cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of

cramps administration of Diazepam 20 mg intravenously.

· 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

5.2 Special hazards arising from

the substance or mixture Can

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO) Sulphur dioxide (SO2)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· 5.3 Advice for firefighters

• <u>Protective equipment:</u> Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· <u>Additional information</u> Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

• 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

• 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed. Prevent formation of aerosols. Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier

than air).

Information about fire - and

explosion protection: Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one

common storage facility:

Do not store together with acids. Store away from oxidising agents. Store away from foodstuffs.

· Further information about storage

conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Keep container tightly sealed.

Store receptacle in a well ventilated area. No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about

design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· 7.3 Specific end use(s)

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm

Long-term value: 123 mg/m³, 25 ppm

Sk, BMGV

· DNELs

111-76-2 2-butoxyethanol

Oral	DNEL (Kurzzeit-akut)	13.4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	3.2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	89 mg/kg bw/day (ARB)
		44.5 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	75 mg/kg bw/day (ARB)
		38 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	246-663 mg/m³ Air (ARB)
		123-426 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	98 mg/m³ Air (ARB)
		49 mg/m³ Air (BEV)

· PNECs

111-76-2 2-butoxyethanol

PNEC (wässrig) 8.8 mg/l (MW)

8.8 mg/l (SW)

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PNEC (fest) 2.8 mg/kg Trockengew (BO) 8.14 mg/kg Trockengew (SWS)

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: butoxyacetic acid

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic

measures:

The usual precautionary measures are to be adhered to when handling

chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

• Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A/P2

· Protection of hands: After use of gloves apply skin-cleaning agents and skin cosmetics.

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times´ data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (http://www.stoko.com)

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Skin protection recommendation for skin cleaning after product

handling:

REDURAN SPEZIAL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

 Material of gloves Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed. Value for the permeation: Level \leq 6, 480 min

· For the permanent contact gloves

made of the following materials are

· Penetration time of glove material

suitable:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890)

· As protection from splashes gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic 	ph	ysical	and o	chemical	pro	perties
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· General Information

· Appearance:

Form: Aerosol Colour: Yellowish · Odour: Petroleum-like

pH-value:

· Flash point:

Not applicable

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Not applicable, as aerosol.

460 °C Ignition temperature:

 Auto-ignition temperature: Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour Explosive properties:

mixtures are possible.

Not applicable, as aerosol.

· Explosion limits:

1.7 Vol % Lower: Upper: 10.9 Vol %

 Vapour pressure at 20 °C: 8,300 hPa

- Density at 20 °C: 0.7 g/cm³

· Solubility in / Miscibility with

Partly miscible. water:

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Trade name: Rust Dissolver Spray (Contd. of page 7) · Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: Organic solvents: 69.9 % 14.5 % Solids content:

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability Thermal decomposition /

· 9.2 Other information

No decomposition if used according to specifications. conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous

reactions Reacts with strong oxidising agents.

Reacts with strong acids.

· 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition

products: Aldehyde

Carbon monoxide and carbon dioxide

Possible in traces.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

 Acute toxicity Based on available data, the classification criteria are not met.

 LD/LC50 v 	· LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)			
Oral	LD50	10,733 mg/kg (rabbit)	
Dermal	LD50	30,088 mg/kg (rabbit)	
Inhalative	LC50/4 h	>74.4 mg/l (rat)	

	Dermal	LD50	0,088 mg/kg (rabbit)	
	Inhalative	LC50/4 h	>74.4 mg/l (rat)	
Г	75-28-5 is	obutane		
	Inhalative	LC50/4 h	>50 mg/l (rat)	
	64742-82-	1 naphtha	(petroleum), hydrodesulphurized heavy	
	Oral	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401)	
	Dermal	LD50	>3,400 mg/kg (rabbit) (OECD-Prüfrichtlinie 402)	
	Inhalative	LC50/4 h	>13.1 mg/l (rat)	
	64742-81-	0 Kerosin	e (petroleum), hydrodesulfurized	
	Oral	LD50	>5,000 mg/kg (rat) (OECD 420)	
	Inhalative	LC50	>5.28 mg/l (rat) (OECD 403)	
	106-97-8 butane			
	Inhalative	LC50/4 h	658 mg/l (rat)	
	111-76-2 2-butoxyethanol			
	Oral	LD50	300 mg/kg (rabbit)	
			1,250-1,490 mg/kg (rat)	
	Dermal	LD50	841 mg/kg (rabbit)	
			(Cantal an mana 0)	

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Inhalative LC50/4 h >12 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation
 Causes skin irritation.

Serious eye damage/irritation
 Respiratory or skin sensitisation
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

• STOT-single exposure May cause drowsiness or dizziness.

• STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

• 12.1 Toxicity

. Ac	ualic	toxicity.	

64742-82-1 naphtha ((petroleum)), hydrodesul	phurized heavy
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EL50/48h 10-22 mg/l (daphnia magna)

EL50/72h 50-100 mg/l (Pseudokirchneriella subcapitata)

LL50/96h 10-100 mg/l (Oncorhynchus mykiss)
NOELR/72h 3 mg/l (Pseudokirchneriella subcapitata)

NOEC/21d 0.097 mg/l (daphnia magna)

NOELR/21d 0.28 mg/l (daphnia magna)

NOELR/28d 0.091 mg/l (Oncorhynchus mykiss)

111-76-2 2-butoxyethanol

EC50/24h	1,815 mg/l (daphnia magna)
LC50	297 mg/l (daphnia magna)
EC50/48h	1,815 mg/l (daphnia magna) 297 mg/l (daphnia magna) 1,550 mg/l (daphnia magna)
NOEC	286 mg/l (green alge)

NOEC/21d >100 mg/l (Brachydanio rerio)

100 mg/l (daphnia magna)

EC50/72h 1,840 mg/l (Desmodesmus subspicatus)

LC50/96h 1,490 mg/l (lepomis macrochirus)

1,474 mg/l (Oncorhynchus mykiss)

12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

water

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.√P∨B: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• <u>Recommendation</u> Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· European waste catalogue

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 05 00 gases in pressure containers and discarded chemicals

16 05 04* gases in pressure containers (including halons) containing hazardous substances

Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

SECTION 14: Transport information

· 14.2 UN proper shipping name

- ADR 1950 AEROSOLS
- IMDG AEROSOLS

· IATA AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· <u>Class</u> 2 5F Gases.

· <u>Label</u> 2.1

· IMDG



· Class
 · Label
 2 Gases.
 2.1

·IATA



· Class
 · Label
 2.1
 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

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Trade name: Rust Dissolver Spray	
	(Contd. of page 10)
 14.5 Environmental hazards: Marine pollutant: 	No
14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code	Warning: Gases. 23 F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· <u>Segregation Code</u>	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	o <u>f</u> Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed.

Seveso category P3a FLAMMABLE AEROSOLS

· Qualifying quantity (tonnes) for the application of lower-tier

requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier

<u>requirements</u> 500 t

- REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be

observed.

Employment restrictions concerning juveniles must be observed.

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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AKEMI®

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Trade name: Rust Dissolver Spray

- <u>VOC EU</u> 598.5 g/l

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
 H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

Department issuing SDS:Contact:

Laboratory Elke Hake

Fon ++49 (0)911 64296-59

· Abbreviations and acronyms:

@mail E.Hake@akemi.de RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 1: Flammable liquids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources REACH directive 1907/2006/EC

* Data compared to the previous

version altered. Adaptation in accordance with REACH directive 1907/2006/EC