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

- · 1.1 Product identifier
- · Trade name: MOTO PROTECT SPRAY
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture

Lubrication, anticorrosive Only for proper handling.

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTOREX AG Bern-Zürich-Strasse 31, Postfach CH-4901 Langenthal Tel. +41 (0)62 919 75 75 www.motorex.com

- · Further information obtainable from: msds@motorex.com
- 1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

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

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Distillates (petroleum), hydtrotreated middle

· Hazard statements

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

May cause drowsiness or dizziness. H336

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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 dust/fume/gas/mist/vapours/spray.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P412 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.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 64742-46-7 EINECS: 265-148-2 Index number: 649-221-00-X Reg.nr.: 01-2119489867-12	Distillates (petroleum), hydtrotreated middle Asp. Tox. 1, H304	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-2.5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents	
aliphatic hydrocarbons	≥30%
perfumes	<5%

· Additional information:

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346. For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Remove residues with soap and water.
- After eye contact: Flush eyes with plenty of water.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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.

- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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 Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

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:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

The recommended storage temperature is (deg.C): -10 - +50°C

Keep container tightly sealed.

- Storage class: 2 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure

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)

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· DNELs		
Hydrocar	bons, C9-C11, n-alkanes, isoalkanes, cycloalkanes,	<2% aromatics
Oral	DNEL/general population/Systemic effects/Long-term	300 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	300 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	300 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	1,500 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	900 mg/m3 (consumer)
64742-46-	7 Distillates (petroleum), hydtrotreated middle	
Dermal	DNEL / Workers / Systemic effects / Long-term	2.9 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	16 mg/m3 (worker)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· Hand protection

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

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye/face protection Not required.
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Aerosol

· Colour: colourless to light yellow

Odour: Solvent-like
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Not applicable, as aerosol.

· Flammability Not applicable.

Lower and upper explosion limit

· Lower: 1 Vol %

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Upper: 8.5 Vol % · Flash point: <-10 °C

Auto-ignition temperature: >230 °C (DIN 51794) Decomposition temperature: Not determined. · pH Not determined.

· Viscosity:

1 mm²/s @ 40 °C (DIN 51562-1) · Kinematic viscosity

· Consistency

· Dynamic: Not determined.

Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.

· Heat Capacity

Vapour pressure at 20 °C: 2.100 hPa

Vapour pressure:

Density and/or relative density

Density at 20 °C: 0.762 g/cm3 (ASTM D 4052)

· Relative density Not determined. · Vapour density Not determined.

9.2 Other information

· Appearance:

Liquefied gas Form:

· Important information on protection of health

and environment, and on safety.

· Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent separation test:

· VOC (EC) 75.56 %

Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised

container: May burst if heated.

· Oxidising gases Void · Gases under pressure Void · Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pvrophoric solids Void Self-heating substances and mixtures Void

· Substances and mixtures, which emit

flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

Dermal L Inhalative L L	LC50 / 8h	5,000-15,000 mg/kg (rat) 1,000-5,000 mg/kg/24h (rat) 2,000 mg/kg (rat) 3,160-5,000 mg/kg (rabbit) 4.951-9.3 mg/l (rat)
Dermal I Inhalative I I	LD50 LC50 / 4h LC50 / 8h	2,000 mg/kg (rat) 3,160-5,000 mg/kg (rabbit) 4.951-9.3 mg/l (rat)
Inhalative I I I	LC50 / 4h LC50 / 8h	3,160-5,000 mg/kg (rabbit) 4.951-9.3 mg/l (rat)
	LC50 / 8h	4.951-9.3 mg/l (rat)
	LC50 / 8h	
1	1050 / 01	41-4,467 ppm (rat)
	LC50 / 8h	5 mg/l (rat)
1.	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m3 (rat)
106-97-8 b	utane, pure	
Inhalative I	LC50 / 15 min	1,442.738-1.443 mg/l (rat)
	LC50 / 15 min	800,000 ppm (rat)
	LC50 / 2h	1,237 mg/l (mouse)
	LC50 / 2h	520,400-539,600 ppm (mouse)
	LC50 / 4h	658 mg/l (rat)
	NOAEC	4,000-16,000 ppm (rat)
	NOAEC	7.2-21.4 mg/l (rat)
1	LOAEC	21.6 mg/l (rat)
	LOAEC	12,000 ppm (rat)
64742-46-7	7 Distillates (p	etroleum), hydtrotreated middle
Oral I	LD50	5,000 mg/kg (rat)
Dermal l	LD50	2,000 mg/kg (rabbit)
	NOAEL	25-125 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
	LOAEL	30 mg/kg/24h (rat)
Inhalative l	LC50 / 4h	1.72-4.6 mg/l (rat)
	NOAEC	880-1,710 mg/m3 (rat)
	LOEL	23-24 mg/m3 (rat)
74-98-6 pro	•	
Inhalative l	LC50 / 15 min	1,442.738-1.443 mg/l (rat)

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LC50 / 2h	1,237 mg/l (mouse)
LC50 / 2h	520,400-539,600 ppm (mouse)
NOAEC	4,000-16,000 ppm (rat)
NOAEC	7.214-21.394 mg/l (rat)
LOAEC	21.64 mg/l (rat)
LOAEC	12,000 ppm (rat)
75-28-5 isobutane	
Inhalative LC50 / 15 min	1,442.738-1.443 mg/l (rat)
LC50 / 15 min	800,000 ppm (rat)
LC50 / 2h	1,237 mg/l (mouse)
LC50 / 2h	520,400-539,600 ppm (mouse)
NOAEC	4,000-16,000 ppm (rat)
NOAEC	7.214-21.394 mg/l (rat)
LOAEC	21.641 mg/l (rat)
LOAEC	12,000 ppm (rat)

- STOT-single exposure May cause drowsiness or dizziness.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Hydroca	arbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	_
LL50	1,000 mg/l/96h (fish)	_
LL50	1,000 mg/l/72h (fish)	
LL50	1,000 mg/l/48h (fish)	
LL50	1,000 mg/l/24h (fish)	
LL0	100 mg/l/96h (fish)	
EL50	1,000 mg/l/48h (aquatic invertebrates)	
EL50	1,000 mg/l/24h (aquatic invertebrates)	
EL50	1,000 mg/l/72h (algae / cyanobacteria)	
EL0	1,000 mg/l/48h (aquatic invertebrates)	
NOELR	0.131 mg/l/28d (fish)	
NOELR	0.23 mg/l/21d (aquatic invertebrates)	
NOELR	3-100 mg/l/72h (algae / cyanobacteria)	
106-97-8	8 butane, pure	_
LC50	24.1-147.5 mg/l/96h (fish)	
LC50	14.2-69.4 mg/l/48h (aquatic invertebrates)	
EC50	7.7-19.4 mg/l/96h (algae / cyanobacteria)	
64742-4	6-7 Distillates (petroleum), hydtrotreated middle	
LL50	1.13-65 mg/l/96h (fish)	
LL50	21-150 mg/l/72h (fish)	
LL50	28-180 mg/l/48h (fish)	
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ſ	LL50	100-1,000 mg/l/24h (fish)
	EL50	7.385-210 mg/l/48h (aquatic invertebrates)
	EL50	180-1,000 mg/l/24h (aquatic invertebrates)
	EL50	1.714-22 mg/l/72h (algae / cyanobacteria)
-	74-98-6	propane
-	LC50	24.11-147.54 mg/l/96h (fish)
	LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
	EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)
	<i>75-28-5</i>	isobutane
Ī	LC50	24.11-147.54 mg/l/96h (fish)
	LC50	14.22-69.43 mg/l/48h (aquatic invertebrates)
	EC50	7.71-19.37 mg/l/96h (algae / cyanobacteria)

• 12.2 Persistence and degradability Biodegradability according to OECD 301 B: >60 % in 28 days

· 12.3 Bioaccumulat	ive potential
Hydrocarbons, C9	-C11, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Biodegradability	80 % (28d) (Bioaccumulation) (OECD 301 F)
106-97-8 butane, p	ure
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)
64742-46-7 Distilla	tes (petroleum), hydtrotreated middle
Biodegradability	74 % (28d) (Biodegradability) (OECD 306)
74-98-6 propane	
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)
75-28-5 isobutane	
Partition coefficient	1.09-2.8 [] (log Kow) (Bioaccumulation)
Biodegradability	100 % (28d) (Biodegradability)

- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

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· Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

SECTION 14: Transport informa	tion
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· 14.1 UN number or ID number

· ADR/RID/ADN, IMDG, IATA UN1950

· 14.2 UN proper shipping name

· ADR/RID/ADN 1950 AEROSOLS

· **IMDG** AEROSOLS

· IATA AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR/RID/ADN



· Class 2 5F Gases.

· Label 2.1

· IMDG, IATA



· Class 2.1 Gases.

· Label 2.1

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Gases.

· Hazard identification number (Kemler code): -

• EMS Number: F-D.S-U

• Stowage Code 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.

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· Segregation Code	SG69 For AEROSOLS with a maximum capacit 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 Maritime transport in bulk account in bulk account in the second instruments	ording to Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0
Transport category	Not permitted as Excepted Quantity 2
Transport category Tunnel restriction code	
Transport category	2

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 requirements 500 t
- · National chemical directories

Components listed or exempted from listing:

TSCA (USA)

DSL/NDSL (CDN)

ENCS/METI (J)

AICS (Aus)

IECSC (CN)

EINECS/ELINCS/NLP (EU)

ECL/KECI (KOR)

PICCS (RP)

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

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No special training instructions to ensure protection of human health and environment are required.

· purity requirement

Relevant phrases

Extremely flammable gas. H220

Flammable liquid and vapour. H226

H280 Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways. H304

May cause drowsiness or dizziness. H336

EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Abteilung Produktsicherheit

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

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

Flam. Liq. 3: Flammable liquids – Category 3 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

* Data compared to the previous version altered.

Annex: Exposure scenario 1

- · Short title of the exposure scenario Industrial use of lubricants and greases in open systems
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- · Product category PC24 Lubricants, greases, release products
- · Process category

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC7 Industrial spraying

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.

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- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures Disposal must be made according to official regulations.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 2

- · Short title of the exposure scenario Professional use of lubricants and greases in open systems
- Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- Product category PC24 Lubricants, greases, release products
- · Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Fluid
- Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.

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- · Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · **Disposal measures** Disposal must be made according to official regulations.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 3

- · Short title of the exposure scenario Private use of lubricants and greases in open systems
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Product category PC24 Lubricants, greases, release products
- · Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- · Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- Air No special measures required.
- · Water No special measures required.
- · **Disposal measures** Disposal must be made according to official regulations.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 4

- · Short title of the exposure scenario Industrial use of anticorrosion agents
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Product category PC14 Metal surface treatment products
- · Process category

PROC10 Roller application or brushing

PROC11 Non industrial spraying

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PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures Dispose of product residues with household waste.
- Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 5

- · Short title of the exposure scenario Professional use of anticorrosion agents
- · Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC14 Metal surface treatment products
- Process category

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

· Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.

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- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 6

- · Short title of the exposure scenario Private use of anticorrosion agents
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Product category PC14 Metal surface treatment products
- · Process category
- PROC10 Roller application or brushing
- PROC11 Non industrial spraying
- PROC13 Treatment of articles by dipping and pouring
- · Environmental release category
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.

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· Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 7

- · Short title of the exposure scenario Industrial use of sprays
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category

PC14 Metal surface treatment products

PC34 Textile dyes, and impregnating products

- · Process category PROC11 Non industrial spraying
- Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- Environmental protection measures
- · Air No special measures required.
- Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 8

- · Short title of the exposure scenario Professional use of sprays
- · Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC14 Metal surface treatment products

PC34 Textile dyes, and impregnating products

- Process category PROC11 Non industrial spraying
- · Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

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- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.
- · Environmental protection measures
- · Air No special measures required.
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 9

- · Short title of the exposure scenario Private use of sprays
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers
- · Product category
- PC14 Metal surface treatment products
- PC34 Textile dyes, and impregnating products
- Process category PROC11 Non industrial spraying
- · Environmental release category
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- · Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- · Measures for consumer protection No special measures required.

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- · Environmental protection measures
- Air No special measures required.
- Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures Dispose of product residues with household waste.
- Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

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