MOTOREX*
Oil of Switzerland

Revision: 31.01.2023

Printing date 31.01.2023

Version number 3.2 (replaces version 3.1)

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

- · 1.1 Product identifier
- · Trade name: CHAIN CLEAN DEGREASER 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

Only for proper handling. Cleaning agent/ Cleaner

- · 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 (UK only).

SECTION 2: Hazards identification

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

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

heated.

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 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 GHS

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

· Hazard statements

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

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H411 Toxic 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 carefully and follow all instructions.

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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.

P280 Wear eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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.

· Additional information:

Contains biocidal products: propan-2-ol

- 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: 920-750-0 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	50-70%
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: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥10-<20%
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	2.5-7.5%
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 perfumes ≥30% <5%</p>

· Additional information: 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: Generally the product does not irritate the skin.

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· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 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 product to reach sewage system or any water course.

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:

Dispose contaminated material as waste according to item 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): ≤50°C

Keep container tightly sealed.

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

GB

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500 mg/m3 (worker)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Ingredien	ts with limit values that require monitoring at the w	orkplace:	
106-97-8	butane, pure		
Lon	rt-term value: 1810 mg/m³, 750 ppm g-term value: 1450 mg/m³, 600 ppm c (if more than 0.1% of buta-1.3-diene)		
67-63-0 p	ropan-2-ol		
	rt-term value: 1250 mg/m³, 500 ppm g-term value: 999 mg/m³, 400 ppm		
· DNELs			
Hydrocar	bons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	DNEL/general population/Systemic effects/Long-term	699 mg/kg/24h (consumer)	
Dermal	DNEL / Workers / Systemic effects / Long-term	773 mg/kg/24h (worker)	
	DNEL/general population/Systemic effects/Long-term 699 mg/kg/24h (consumer)		
Inhalative	DNEL / Workers / Systemic effects / Long-term	2,035 mg/m3 (worker)	
	DNEL/general population/Systemic effects/Long-term 608 mg/m3 (consumer)		
67-63-0 p	ropan-2-ol		
Oral	DNEL/general population/Systemic effects/Long-term	26 mg/kg/24h (consumer)	
Dermal	Dermal DNEL / Workers / Systemic effects / Long-term 888 mg/kg/24h (worker)		
	DNEL/general population/Systemic effects/Long-term	319 mg/kg/24h (consumer)	

· PNECs

Inhalative

67-63-0 propan-2-ol

07-0	67-63-0 propart-2-01				
Oral	PNEC / Predators / Secondary poisoning	160 mg/kg food (secondary poisoning (predators))			
	PNEC / Aquatic organisms / Freshwater	140.9 mg/l (aquatic organisms)			
	PNEC / Aquatic organisms / Marine water	140.9 mg/l (aquatic organisms)			
	PNEC/Aquatic org/intermittent releases(freshwater)	140.9 mg/l (aquatic organisms)			
	PNEC/Aquatic organisms/Sewage treatment plant/STP	2,251 mg/l (aquatic organisms)			
	PNEC / Aquatic organisms / Sediment (freshwater)	552 mg/kg (aquatic organisms)			
	PNEC / Aquatic organisms / Sediment (marine water)	552 mg/kg (aquatic organisms)			
	PNEC / Terrestrial organism / Soil	28 mg/kg (terrestrial organisms)			

DNEL/general population/Systemic effects/Long-term | 89 mg/m3 (consumer)

- 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.

DNEL / Workers / Systemic effects / Long-term

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

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.

Avoid contact with the eyes and skin.

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· 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 · Odour: green apple 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: 0.9 Vol % · Upper: 12 Vol % · Flash point: <-25 °C

310 °C (DIN 51794) · Ignition temperature: · Decomposition temperature: Not determined. · pH Not determined.

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

· Consistency · Dynamic: Not determined.

Solubility

water: Not miscible or difficult to mix.

Not determined.

· Partition coefficient n-octanol/water (log

value) Heat Capacity

Vapour pressure at 20 °C:

2,100 hPa Density and/or relative density

Density at 20 °C: 0.746 g/cm3 (ASTM D 4052) Relative density Not determined.

· Vapour density Not determined.

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· 9.2 Other information

· Appearance:

· Form: Liquefied gas

· 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.

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard

classes

· Explosives Void Flammable gases Void

Extremely flammable aerosol. Pressurised · Aerosols

container: May burst if heated.

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

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.

· LD/LC50	· LD/LC50 values relevant for classification:		
Hydrocar	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	LD50	8 ml/kg (rat)	
Dermal	LD50	4 ml/kg (rat)	
	LD50 2,800-3,100 mg/kg (rat)		
Inhalative	Inhalative LC50 / 4h 23.3 mg/l (rat)		

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	NOAEO	(Contd. of pa
	NOAEC	5.8-24.3 mg/l (rat)
	butane, pure	
Inhalative	LC50 / 15 min	
	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)
	LOAEC	21.6 mg/l (rat)
	LOAEC	12,000 ppm (rat)
67-63-0 pr	ropan-2-ol	
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	16.4 ml/kg (rabbit)
	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 6h	10,000 ppm (rat)
		5,000 ppm (rat)
	NOEC	500-5,000 ppm (rat)
74-98-6 pr	ropane	
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	21.64 mg/l (rat)
	LOAEC	12,000 ppm (rat)
75-28-5 is	obutane	
Inhalative	LC50 / 15 min	1,442.738-1.443 mg/l (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)
1	LOAEC	12,000 ppm (rat)

- Serious eye damage/irritation Causes serious eye irritation.
- · 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			
ĺ	1222-05-5 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	List II		

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SECTION 12: Ecological information

· 12.1 Toxicity

	toxicity:
	arbons, C7-C9, n-alkanes, isoalkanes, cyclics
EC50	0.23 mg/l/21d (aquatic invertebrates)
EC50	0.64 mg/l/48h (aquatic invertebrates)
LL50	3-10 mg/l/96h (fish)
LL50	10-30 mg/l/72h (fish)
LL50	10-30 mg/l/48h (fish)
LL50	30-100 mg/l/24h (fish)
LL0	3 mg/l/96h (fish)
EL50	13 mg/l/96h (algae / cyanobacteria)
EL50	4.6-10 mg/l/48h (aquatic invertebrates)
	10-30 mg/l/48h (algae / cyanobacteria)
EL50	10-22 mg/l/24h (aquatic invertebrates)
	10-30 mg/l/24h (algae / cyanobacteria)
EL50	10-30 mg/l/72h (algae / cyanobacteria)
EL0	4.6 mg/l/48h (aquatic invertebrates)
EL0	10 mg/l/24h (aquatic invertebrates)
NOEC	0.17 mg/l/21d (aquatic invertebrates)
NOELR	0.574 mg/l/28d (fish)
NOELR	1 mg/l/21d (aquatic invertebrates)
NOELR	6.3 mg/l/96h (algae / cyanobacteria)
LOEC	0.32 mg/kg/28d (aquatic invertebrates)
	3 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)
	propan-2-ol
LC50	9.64-10 mg/l/96h (fish)
LC50	10,000 mg/l/24h (aquatic invertebrates)
EC50	10,000 mg/l/24h (aquatic invertebrates)
	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)
	isobutane
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 No further relevant information available.

· 12.3 Bioaccumulative potential

Hydrocarbons,	. C7-C9, n-alkane	es, isoalkanes,	cyclics
---------------	-------------------	-----------------	---------

Biodegradability 98 % (28d) (Biodegradability) (OECD 301 F)

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oure	
1.09-2.8 [] (log Kow) (Bioaccumulation)	
ol .	
0.05 [] (log Kow) (Bioaccumulation)	
Biodegradability >70 % (28d) (Biodegradability) (EU Method C.5)	
1.09-2.8 [] (log Kow) (Bioaccumulation)	
1.09-2.8 [] (log Kow) (Bioaccumulation)	
100 % (28d) (Biodegradability)	
	1.09-2.8 [] (log Kow) (Bioaccumulation) 1.09-2.8 [] (log Kow) (Bioaccumulation)

- 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

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Discharged containers can contain flammable or explosive vapours.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	1950 AEROSOLS, ENVIRONMENTALL
· ADR/RID/ADN	HAZARDOUS
· IMDG	AEROSOLS, MARINE POLLUTANT
· IATA	AEROSOLS, flammable

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(Contd. of page 9) · 14.3 Transport hazard class(es) · ADR/RID/ADN 2 5F Gases. · Class · Label 2.1 · IMDG · Class 2.1 Gases. · Label 2.1 ·IATA · Class 2.1 Gases. · Label 2.1 · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA Void · 14.5 Environmental hazards: Product contains environmentally hazardous substances: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Yes · Marine pollutant: Symbol (fish and tree) · Special marking (ADR/RID/ADN): Symbol (fish and tree) · 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. SG69 For AEROSOLS with a maximum capacity · Segregation Code 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 according to

Not applicable.

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· Transport/Additional information:	
ADR/RID/ADN 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, ENVIRONMENTALL HAZARDOUS

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

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · 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.

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

· purity requirement

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· 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)

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DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK 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. 2: Flammable liquids - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

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

* Data compared to the previous version altered.

Annex: Exposure scenario 1

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

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

- · **Product category** PC35 Washing and cleaning products (including solvent based 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

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

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

· Environmental release category

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

- 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

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- · 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 cleaning agents
- Sector of Use

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

- · Product category PC35 Washing and cleaning products (including solvent based 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

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

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

Environmental release category

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

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 3

- · Short title of the exposure scenario Private use of cleaning agents
- · Sector of Use SU21 Consumer uses: Private households / general public / consumers

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- · Product category PC35 Washing and cleaning products (including solvent based 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

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

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 4

- · 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.

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Trade name: CHAIN CLEAN DEGREASER SPRAY

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- · 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 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)

· 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.

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Trade name: CHAIN CLEAN DEGREASER SPRAY

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- · 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 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.
- · 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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