

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

1.1 Product identifier

Trade name: **MOTO CLEAN UNIVERSAL**

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 material/ Detergent

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

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.

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Additional information:

Contains 1,2-benzisothiazol-3(2H)-one, (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Contains biocidal products: 1,2-benzisothiazol-3(2H)-one

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 1)

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 68551-13-3 Polymer	alcohols, C12-15 ethoxylated propoxylated Eye Irrit. 2, H319	1-2.5%
CAS: 68411-30-3 EINECS: 270-115-0 Reg.nr.: 01-2119489428-22	Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥1-<2.5%
	anionische Tenside Eye Irrit. 2, H319	≥0.25-≤2.5%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.25%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.05 %	≥0-<0.05%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

anionic surfactants, non-ionic surfactants, perfumes ((R)-p-mentha-1,8-diene, Terpinene), preservation agents (BENZISOTHIAZOLINONE)	<5%
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· **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.· **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:** Use fire extinguishing methods suitable to surrounding conditions.· **5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 2)

- **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** Not required.
- **6.2 Environmental precautions:** 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).
- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
The recommended storage temperature is (deg.C): 5-50°C
Keep container tightly sealed.
- **Storage class:** 12
- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

68411-30-3 Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts

Oral	DNEL/general population/Systemic effects/Long-term	0.425 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	85 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	42.5 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	6 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-term	6 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	1.5 mg/m3 (consumer)
	DNEL/general population/Local effects/Long-term	1.5 mg/m3 (consumer)

5989-27-5 (R)-p-mentha-1,8-diene

Oral	DNEL/general population/Systemic effects/Long-term	4.8 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	9.5 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	66.7 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	4.8 mg/m3 (consumer)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Dermal	DNEL / Workers / Systemic effects / Long-term	0.966 mg/kg/24h (worker)
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(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 3)

Inhalative	DNEL/general population/Systemic effects/Long-term	0.345 mg/kg/24h (consumer)
	DNEL / Workers / Systemic effects / Long-term	6.81 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	1.2 mg/m3 (consumer)

· PNECs**68411-30-3 Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts**

PNEC / Aquatic organisms / Freshwater	0.268 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Marine water	0.0268 mg/l (aquatic organisms)
PNEC / Aquatic org / intermittent releases(freshwater)	0.0167 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	3.43 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	8.1 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	6.8 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	35 mg/kg (terrestrial organisms)

5989-27-5 (R)-p-mentha-1,8-diene

Oral	PNEC / Predators / Secondary poisoning	133 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	0.014 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.0014 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	1.8 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	3.85 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.385 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	0.763 mg/kg (terrestrial organisms)

2634-33-5 1,2-benzisothiazol-3(2H)-one

	PNEC / Aquatic organisms / Freshwater	0.004 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.000403 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases(freshwater)	0.0011 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	1.03 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.0000499 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.00000499 mg/kg (aquatic organisms)

· **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.

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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 4)

· Respiratory protection:

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 Goggles recommended during refilling**· Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Physical state**

Fluid

· Colour:

Green

· Odour:

Lemon

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

Undetermined.

· Flammability

Not applicable.

· Lower and upper explosion limit**· Lower:**

Not determined.

· Upper:

Not determined.

· Flash point:

Not applicable.

· Decomposition temperature:

Not determined.

· pH at 20 °C

8.75 (DIN 51369)

· Viscosity:**· Kinematic viscosity**

Not determined.

· 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:**

Not determined.

· Vapour pressure:**· Density and/or relative density****· Density at 20 °C:**1.013 g/cm³ (ASTM D 4052)**· Relative density**

Not determined.

· Vapour density

Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 5)

- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent separation test:**
- **VOC (EC)** 0.11 %
- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **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 values relevant for classification:

68411-30-3 Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts

Oral	LD50	1,080 mg/kg (rat)
	NOAEL	40-85 mg/kg/24h (rat)
	LOAEL	115-145 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 6)

5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	2,000 mg/kg (rat)
	NOAEL	100 mg/kg/24h (dog) 500-1,650 mg/kg/24h (mouse) 600-3,300 mg/kg/24h (rat)
	LOAEL	3,300 mg/kg/24h (mouse) 1,200-1,650 mg/kg/24h (rat)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	490-670 mg/kg (rat)
	NOAEL	69-150 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

· **Serious eye damage/irritation** Causes serious eye irritation.· **11.2 Information on other hazards**· **Endocrine disrupting properties**

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**· **Aquatic toxicity:****68411-30-3 Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts**

LC50	1.8-6.5 mg/l/96h (aquatic invertebrates) 1.67 mg/l/96h (fish)
LC50	0.96-1.1 mg/l/7d (aquatic invertebrates)
EC50	6.4 mg/l/24h (aquatic invertebrates)
EC50	0.91-29 mg/l/96h (algae / cyanobacteria)
EC50	2.9 mg/l/48h (aquatic invertebrates)
NOEC	0.23 mg/l/72d (fish)
NOEC	100 g/kg/21d (terrestrial plants)
NOEC	0.081 g/kg/28d (sediment)
NOEC	1.18 mg/l/21d (aquatic invertebrates)
NOEC	2.4 mg/l/72h (algae / cyanobacteria)
NOEC	0.5 mg/l/96h (algae / cyanobacteria)
NOEC	0.5-5 mg/l/7d (aquatic invertebrates)
NOEC	2-4 mg/l/28d (aquatic invertebrates) 1-3.2 mg/l/28d (fish)

5989-27-5 (R)-p-mentha-1,8-diene

LC50	0.46-0.72 mg/l/96h (fish)
EC10	18 mg/l/3h (microorganisms)
EC10	0.153 mg/l/21d (aquatic invertebrates)
EC10	0.14 mg/l/48h (algae / cyanobacteria)
EC50	209 mg/l/3h (microorganisms)
EC50	0.688-0.702 mg/l/96h (fish)
EC10	0.149-0.174 mg/l/72h (algae / cyanobacteria)
EC50	0.214-0.32 mg/l/72h (algae / cyanobacteria)
EC50	0.188 mg/l/21d (aquatic invertebrates)

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 7)

EC50	0.307 mg/l/48h (aquatic invertebrates)
	0.25 mg/l/48h (algae / cyanobacteria)
NOEC	0.05-0.08 mg/l/21d (aquatic invertebrates)
NOEC	0.09 mg/l/48h (algae / cyanobacteria)
NOEC	0.059-0.37 mg/l/7d (fish)
NOEC	0.08 mg/l/28d (fish)
LOEC	0.173 mg/kg/28d (aquatic invertebrates)

2634-33-5 1,2-benzisothiazol-3(2H)-one

LC50	2.15-22 mg/l/96h (fish)
LC50	0.41 g/kg/14d (terrestr. macroorganisms (- arthropods))
EC50	0.2-0.812 g/kg/14d (terrestrial plants)
EC10	10.3 mg/l (microorganisms)
EC10	30 mg/kg (terrestrial plants)
	263.7 mg/kg (soil microorganisms)
	234.5 mg/kg (terrestr. macroorganisms (- arthropods))
EC50	0.8115 g/kg/28d (soil microorganisms)
EC50	12.8-24 mg/l/3h (microorganisms)
EC50	0.07-0.15 mg/l/72h (algae / cyanobacteria)
EC50	2.9-2.94 mg/l/48h (aquatic invertebrates)
NOEC	0.03-0.812 g/kg/14d (terrestrial plants)
	0.234-0.411 g/kg/14d (terrestr. macroorganisms (- arthropods))
NOEC	0.2637 g/kg/28d (soil microorganisms)
NOEC	0.04-0.055 mg/l/72h (algae / cyanobacteria)
NOEC	10.3-11 mg/l/3h (microorganisms)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

68411-30-3 Benzene sulfonic acid, C10-13-alkyl derivatives, sodium salts

Partition coefficient	1.4 [---] (log Kow) (Bioaccumulation)
Biodegradability	85 % (28d) (Biodegradability) (OECD 301 B)

5989-27-5 (R)-p-mentha-1,8-diene

Partition coefficient	4.38 [---] (log Kow) (Bioaccumulation)
Biodegradability	80 % (28d) (Biodegradability) (OECD 301 D)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Partition coefficient	0.7 [---] (log Kow) (Bioaccumulation)
Bioconcentration factor (BCF)	6.62 BCF (fish)

· **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**

· **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.

GB

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 8)

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR/RID/ADN, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA
Class Void

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Void

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.

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 9)

*H304 May be fatal if swallowed and enters airways.**H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.**H400 Very toxic to aquatic life.**H411 Toxic to aquatic life with long lasting effects.**H412 Harmful 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic 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

- *** 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.

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 08.05.2023

Version number 3.0 (replaces version 2.1)

Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 10)

- **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 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.

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31



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Revision: 08.05.2023

Trade name: MOTO CLEAN UNIVERSAL

(Contd. of page 11)

- **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
- **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

(Contd. on page 13)

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



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(Contd. of page 12)

- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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