

Safety Data Sheet



Rim Cleaner

Safety Data Sheet dated 18/04/2023 version 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Mixture identification:

Trade name: Rim Cleaner

Trade code: 0893 250025

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:

Vehicle pre-wash cleaner

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: WURTH GULF FZE

Jebel Ali South 6 ,Dubai ,U.A.E - P.O.Box:17036

T: +9714 8809991, 04 8834229(old), F: +971 4 8809255, 04 8834303(old), E:

wurthglf@emirates.net.ae - www.wurth.ae

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/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.
P310	Immediately call a POISON CENTER.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains

sodium hydroxide; caustic soda

tetrasodium ethylene diamine tetraacetate

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether

Alcol C6 Etossilato

Regulation (EC) nr 648/2004 (Detergents).

Product contents:

EDTA and salts thereof, < 5%
Amphoteric surfactants, Non-ionic surfactants

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: *: when the REACH number is not present: 1) raw material imported before 31 May 2018, pre-registration regime; 2) or not subject to the REACH Regulation (e.g. polymer or imported quantity <1 ton)

POR LEGA

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
< 5%	sodium hydroxide; caustic soda	CAS:1310-73-2 EC:215-185-5 Index:011-002-00-6	Met. Corr. 1, H290; Skin Corr. 1, H314	01-2119457892-27-XXXX
< 5%	tetrasodium ethylene diamine tetraacetate	CAS:64-02-8 EC:200-573-9 Index:607-428-00-2	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Dam. 1, H318; STOT RE 2, H373	01-2119486762-27-xxxx
< 5%	Alchil(cocco)ammidopropil betaina	CAS:147170-44-3 EC:931-333-8	Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific Concentration Limits: 4% \leq C < 10%: Eye Irrit. 2 H319 10% \leq C < 100%: Eye Dam. 1 H318	01-2119489410-39-xxxx
< 5%	Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	CAS:166736-08-9 EC:605-450-7	Acute Tox. 4, H302; Eye Dam. 1, H318	
< 5%	Alcol C6 Etossilato	CAS:31726-34-8 EC:500-077-5	Acute Tox. 4, H302; Eye Dam. 1, H318	02-2119549270-44-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Occupational Exposure Limit
sodium hydroxide; caustic soda CAS: 1310-73-2	ACGIH	Short Term: Ceiling - 2 mg/m ³ URT, eye, and skin irr

Predicted No Effect Concentration (PNEC) values

tetrasodium ethylene diamine tetraacetate
CAS: 64-02-8

Exposure Route: Fresh Water; PNEC Limit: 2.2 mg/l

Exposure Route: Marine water; PNEC Limit: 0.22 mg/l

Exposure Route: Intermittent releases; PNEC Limit: 43 mg/l

Exposure Route: Soil (agricultural); PNEC Limit: 0.72 mg/cm²

Alchil(cocco)ammidopropil betaina
CAS: 147170-44-3

Exposure Route: Fresh Water; PNEC Limit: 0.013 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 14.8 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 1.48 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3000 mg/l

Exposure Route: Soil (agricultural); PNEC Limit: 0.8 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.001 mg/l

Derived No Effect Level (DNEL) values

tetrasodium ethylene diamine tetraacetate
CAS: 64-02-8

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 1.5 mg/m³; Consumer: 0.6 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 3 mg/m³; Consumer: 1.2 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 25 mg/kg/giorno

Alchil(cocco)ammidopropil betaina
CAS: 147170-44-3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 7.5 mg/kg/giorno

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 44 mg/m³; Consumer: 13.04 mg/kg/giorno

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 12.5 mg/kg/giorno; Consumer: 7.5 mg/kg/giorno

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance and colour: Liquid pink (internal method)

Odour: odourless (internal method)

Odour threshold: Non determinata

pH: 10.50 (Electrode)

Kinematic viscosity: N.A. (Not relevant information)

Melting point / freezing point: -2 °C (28 °F) (OECD 103)

Initial boiling point and boiling range: 97 °C (207 °F) (Regulation (EC) No. 440/2008, Annex, A.2)

Flash point: other (> 55°C) Notes: non infiammabile|CELSIUS (ASTM D92)

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.D.

Vapour pressure: N.A. (OECD 103 - Not relevant information)

Relative density: 1.09 g/cm³ (Regulation (EC) No. 440/2008, Annex, A.2)

Solubility in water: Complete (internal method)

Solubility in oil: Not determined Non determinata (Not relevant information)

Partition coefficient (n-octanol/water): N.A. (The product is a mixture)

Auto-ignition temperature: N.A. Notes: N.A. (The product is not thermally unstable and has no self-ignition properties)

Decomposition temperature: N.A. (The product is not subject to exothermic decomposition.)

Flammability: Non-flammable; Not relevant information

Volatile Organic compounds - VOCs = N.A.

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility:

Conductivity:

Explosive properties: N.A. (The product does not contain substances with groups associated with explosive properties.)

Metal corrosion rate: 1.00

(Not relevant information)

Oxidizing properties: N.A. (The product does not contain substances that suggest a possible exothermic reaction with fuels.)

Fat Solubility: Non determinata

Substance Groups relevant properties Non determinata (Not relevant information)

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with halogenated organic substances, and elementary metals.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)	
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)	
d) respiratory or skin sensitisation	Not classified	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

tetrasodium ethylene diamine tetraacetate	a) acute toxicity	LD50 Oral Rat = 1780 mg/kg
		LC50 Inhalation Rat > 1 mg/l
	g) reproductive toxicity	No Observed Adverse Effect Level Rat > 250 mg/kg
Alchil(cocco)ammidopropil betaina	a) acute toxicity	LD50 Oral Rat = 2335 mg/kg
		LD50 Skin Rat > 2000 mg/kg
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	a) acute toxicity	LD50 Oral Rat < 2000 mg/kg
Alcol C6 Etossilato	a) acute toxicity	LD50 Oral Rat < 2000 mg/kg
		LD50 Skin Rat > 2000 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
sodium hydroxide; caustic soda	CAS: 1310-73-2 - EINECS: 215-185-	a) Aquatic acute toxicity : LC50 Fish = 189 mg/L 48h

011-002-00-6

tetrasodium ethylene diamine tetraacetate	CAS: 64-02-8 - EINECS: 200-573-9 - INDEX: 607-428-00-2	Acute toxicity to crustaceans : EC50 Daphnia = 40.4 mg/L 48h a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h
Alchil(cocco)ammidopropil betaina	CAS: 147170-44-3 - EINECS: 931-333-8	Acute toxicity to crustaceans : EC50 Daphnia = 140 mg/L 48h Acute toxicity to algae : EC50 Algae > 100 mg/L 72h Chronic toxicity to fish : NOEC Fish > 25.7 mg/L 840 Chronic toxicity to crustaceans : NOEC Daphnia > 25 mg/L 504 a) Aquatic acute toxicity : LC50 Fish = 1.11 mg/L 96h
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	CAS: 166736-08-9 - EINECS: 605-450-7	Acute toxicity to crustaceans : EC50 Daphnia = 1.9 mg/L 48h Acute toxicity to algae : EC50 Algae > 1.5 mg/L 72h Chronic toxicity to fish : NOEC Fish > 0.32 mg/L 19173.J : NOEC Algae = 0.3 mg/L a) Aquatic acute toxicity : LC50 Fish = 100 mg/L 96h
Alcol C6 Etossilato	CAS: 31726-34-8 - EINECS: 500-077-5	a) Aquatic acute toxicity : EC50 Daphnia = 10 mg/L 48h a) Aquatic acute toxicity : EC50 Algae = 100 mg/L 72h a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72h f) Effects in sewage plants : EC50 microorganisms > 1000 mg/L a) Aquatic acute toxicity : Algae > 100 mg/L 72h

12.2. Persistence and degradability

Component	Persistence/Degradability:	Test	Duratio Value n
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Readily biodegradable	CO2 production	60
Alcol C6 Etossilato	Readily biodegradable	CO2 production	28 d 60.000

12.3. Bioaccumulative potential

Component	Bioaccumulation
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Not bioaccumulative
Alcol C6 Etossilato	Not bioaccumulative

12.4. Mobility in soil

Component	Mobility in soil
Alcol C6 Etossilato	Mobile

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Waste code:

150110* - (in relation to the emptied product packaging): Packaging containing residues of dangerous substances or contaminated by such substances. According to Legislative Decree no. 152/2006 (Environmental Law).

150110* - detergents, containing dangerous substances. (in relation to the product as it is). According to Legislative Decree no. 152/2006 (Environmental Law).

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- Legislative Decree 03/04/2006, n. 152 "Environmental regulations", Part IV: Regulations on waste management and remediation of polluted sites and related regulations.
- Commission Decision 2014/955/EU "New European list of waste - Decision amending decision 2000/532/EC".
- Reg. 1357/2014/EU "Regulation which replaces Annex III of Directive 2008/98/EC of the European Parliament and of the Council relating to waste and which repeals certain directives".
- Reg. 2017/997/EU "Classification of waste - Hazard characteristic HP14 Ecotoxic".
- Reg. 1272/2008/CE and subsequent amendments (CLP) "Classification, labeling and packaging of substances and mixtures", repeal of directives 67/548/CE and 1999/45/CE".
- Reg. 850/2004/CE and subsequent amendments (last update of Reg. (EU) 2022/2400 of 11/23/2022) relating to persistent organic pollutants (POPs).
- Council Regulation 440/2008/EC and subsequent amendments (last update Reg. 464/2023 of 03/03/2023) which establishes test methods pursuant to Reg. (EC) n. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorization and restriction of chemical substances (REACH).
- Legislative Decree 03/09/2020, n. 121, relating to waste landfills.
- SNPA Council Resolution no. 105/2021 "Guidelines on waste classification".

SECTION 14: Transport information

14.1. UN number or ID number

3267

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID. BASIC. ORGANIC, N.O.S. (sodium hydroxide caustic soda)

IATA-Technical name: CORROSIVE LIQUID. BASIC. ORGANIC, N.O.S. (sodium hydroxide caustic soda)

IMDG-Technical name: CORROSIVE LIQUID. BASIC. ORGANIC, N.O.S. (sodium hydroxide caustic soda)

14.3. Transport hazard class(es)

ADR-Class: 8

IATA-Class: 8

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-A. S-B

14.6. Special precautions for user

Road and Rail (ADR-RID):

N.A.

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category B SW2

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP)
 Regulation (EU) n. 2020/217 (ATP 14 CLP)
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 Regulation (EU) n. 2021/643 (ATP 16 CLP)
 Regulation (EU) n. 2021/849 (ATP 17 CLP)
 Regulation (EU) n. 2022/692 (ATP 18 CLP)
 Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No SVHC substances present in concentration $\geq 0.1\%$

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

Alchil(cocco)ammidopropil betaina

SECTION 16: Other information

Code	Description
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1	Skin Corr. 1	Skin corrosion, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure**

Skin Irrit. 2, H315

Calculation method

Eye Dam. 1, H318

Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

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