according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 1 of 14

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

1.1. Product identifier

R-Wipe

UFI: EGD3-F4JA-M003-M93W

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

Use of the substance/mixture

Cleaner

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:

Street:

Höhenweg 9

Place:

D-53937 Schleiden

Telephone:

+49 (0) 2445 85243:

elephone: +49 (0) 2445 852432 Telefax: +49 (0) 2445 852433

E-mail: innosales@nohtec.com Internet: www.zyrobond.com

1.4. Emergency telephone

Poison Information Center (GGIZ Erfurt): +49-361-730730

number:

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none Labelling for contents according to regulation (EC) No. 648/2004: Refer to chapter 3

2.3 Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Qua | antity |
|------------------|---|-------------------------------|------------------|---------------------|--------|
| | EC No | Index No | REACH No | | |
| | Classification (Regulation (EC) No 1272/2008) | | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 1 - | 10 % |
| | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | | |
| Revision No: 4,0 | Flam. Liq. 2, Eye Irrit. 2, STOT SE | 3; H225 H319 H336 IRL - en | • | Print date: 15.11.2 | .2023 |

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 2 of 14

Full text of H and EUH statements: see section 16.

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 3 of 14

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity | |
|---------|--|--|----------|--|
| | Specific Conc. Limits, M-factors and ATE | | | |
| 67-63-0 | 200-661-7 | 61-7 propan-2-ol; isopropyl alcohol; isopropanol | | |
| | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5840 mg/kg | | | |

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Safe handling: see section 7

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 4 of 14

High slip hazard because of leaking or spilled product.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---------|-------------------|-----|-------|---------|-----------|--------|
| 67-63-0 | Isopropyl alcohol | 200 | - | | TWA (8 h) | |

according to Regulation (EC) No 1907/2006

| R-Wipe | | | | | | |
|--|-------------|-----------|-----|---------|---------------|---------------------------------|
| Revision date: 26.10.2023 Page 5 of 14 | | | | | | |
| | | | 400 | - | STEL (15 | min) |
| Biological I | imit values | | • | • | • | |
| CAS No | Substance | Parameter | | Value | Test material | Sampling time |
| 67-63-0 | 2-Propanol | Acetone | | 40 mg/L | Urine | End of shift at end of workweek |

DNEL/DMEL values

| CAS No | Substance | | | | | |
|---|---------------|----------------|----------|-----------------------|--|--|
| DNEL type | | Exposure route | Effect | Value | | |
| 67-63-0 propan-2-ol; isopropyl alcohol; isopropanol | | | | | | |
| Worker DNEL, long-term | | inhalation | systemic | 500 mg/m ³ | | |
| Consumer DNI | EL, long-term | inhalation | systemic | 89 mg/m³ | | |
| Worker DNEL, | long-term | dermal | systemic | 888 mg/kg bw/day | | |
| Consumer DNEL, long-term | | oral | systemic | 26 mg/kg bw/day | | |
| Consumer DNEL, long-term | | dermal | systemic | 319 mg/kg bw/day | | |

PNEC values

| CAS No | Substance | | | |
|--|---|------------|--|--|
| Environment | Environmental compartment | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | |
| Freshwater | Freshwater | | | |
| Freshwater (intermittent releases) | | 140,9 mg/l | | |
| Marine water | | 140,9 mg/l | | |
| Freshwater sediment | | 552 mg/kg | | |
| Marine sedim | nent | 552 mg/kg | | |
| Secondary poisoning | | 160 mg/kg | | |
| Micro-organisms in sewage treatment plants (STP) | | 2251 mg/l | | |
| Soil | 28 mg/kg | | | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 6 of 14

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard

EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid on carrier material

Colour: white Odour: sweet

Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH-Value:

Not determined

viscosity / kinematic:

not determined

vater solubility:

not determined

Solubility in other solvents

not determined

Dissolution rate: not relevant Partition coefficient n-octanol/water: not relevant Dispersion stability: not relevant Vapour pressure: not determined Density: not determined Bulk density: not relevant Relative vapour density: not determined Particle characteristics: not relevant

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion: Not sustaining combustion

Self-ignition temperature

Solid: none

Gas:

Oxidizing properties

according to Regulation (EC) No 1907/2006

| | R-Wipe | |
|---------------------------|--------|--------------|
| Revision date: 26.10.2023 | | Page 7 of 14 |
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according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 8 of 14

Other safety characteristics

Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined Solid content: not determined Sublimation point: not relevant Softening point: not relevant Pour point: not relevant Viscosity / dynamic: not determined Flow time: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | Chemical name | | | | | | |
|---------|----------------------------|---|---------|---------------|--------|--|--|--|
| | Exposure route | Dose | Species | Source | Method | | | |
| 67-63-0 | propan-2-ol; isopropyl ald | propan-2-ol; isopropyl alcohol; isopropanol | | | | | | |
| | oral | LD50 5840 mg/kg | Rat | REACH Dossier | | | | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | REACH Dossier | | | | |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 9 of 14

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

Isopropyl alcohol. (CAS-No.: 67-63-0):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Carcinogenicity:

Exposure time: 24 month Species: Fischer 344 Rat. Method: OECD Guideline 451 Result: NOEL = 5000 ppm

Literature information: REACH Dossier

STOT-single exposure

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

STOT-repeated exposure

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

Isopropyl alcohol. (CAS-No.: 67-63-0):

Chronic inhalative toxicity Exposure time: 24 month Species: Fischer 344 Rat. Method: OECD Guideline 451 Result: NOAEC = 5000 ppm

Literature information: REACH Dossier

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | | | |
|---------|---|---------------|--------|-----------|----------------------------|---------------|----------|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 10000 | 96 h | Pimephales promelas | REACH Dossier | OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | 1800 | | Scenedesmus quadricauda | REACH Dossier | |
| | Acute crustacea toxicity | EC50 mg/l | >10000 | 48 h | Daphnia magna (24h) | REACH Dossier | OECD 202 |

12.2. Persistence and degradability

The product has not been tested.

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

| CAS No | Chemical name | | | |
|--------|---------------|-------|---|--------|
| | Method | Value | d | Source |

according to Regulation (EC) No 1907/2006

| | R-Wipe |
|---------------------------|---------------|
| Revision date: 26.10.2023 | Page 10 of 14 |
| | |

| | Evaluation | | | | | |
|---------|---|-----|---|---------------|--|--|
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | EU Method C.5/ EU Method C.6 | 53% | 5 | REACH Dossier | | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---|---------|
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | 0,05 |

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

List of Wastes Code - used product

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

List of Wastes Code - contaminated packaging

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

150106

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 11 of 14

Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of these transport regulations.14.2. UN proper shipping name:No dangerous good in sense of these transport regulations.14.3. Transport hazard class(es):No dangerous good in sense of these transport regulations.14.4. Packing group:No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number or ID number:No dangerous good in sense of these transport regulations.14.2. UN proper shipping name:No dangerous good in sense of these transport regulations.14.3. Transport hazard class(es):No dangerous good in sense of these transport regulations.14.4. Packing group:No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.1. UN number or ID number:No dangerous good in sense of these transport regulations.14.2. UN proper shipping name:No dangerous good in sense of these transport regulations.14.3. Transport hazard class(es):No dangerous good in sense of these transport regulations.14.4. Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:No dangerous good in sense of these transport regulations.14.2. UN proper shipping name:No dangerous good in sense of these transport regulations.14.3. Transport hazard class(es):No dangerous good in sense of these transport regulations.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

refer to chapter 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

Directive 2010/75/EU on industrial not determined

emissions:

Directive 2004/42/EC on VOC in not determined

paints and varnishes:

Information according to Directive Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (SEVESO III):

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

Regulation (EC) No. 648/2004 (Detergents regulation)

REACH 1907/2006 Appendix XVII, No (mixture): not relevant

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 12 of 14

For the following substances of this mixture a chemical safety assessment has been carried out: propan-2-ol; isopropyl alcohol; isopropanol

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 13 of 14

SECTION 16: Other information

Changes

Rev. 1.00: 12.01.2016. Initial release

Rev. 2,00; 11,09.2018; Changes in chapter: 1-16

Rev. 3,00; 05,01,2021; Changes in chapter: 1, 3, 12, 15, 16

Rev. 4,00; 26.10.2023; Changes in chapter: 1 - 16

Abbreviations and acronyms

Flam. Liq: Flammable liquid Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

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

concerning the International Carriage of Dangerous Goods by Road)

AGW: Arbeitsplatzgrenzwert CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds WGK: Water Hazard Class (Germany)

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

according to Regulation (EC) No 1907/2006

R-Wipe

Revision date: 26.10.2023 Page 14 of 14

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)