

## MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020



### WASHING POWDER DOCTOR WASH BABY

Version No. 02

Dated: 2024-02-02  
Revised: 2024-03-26  
Printed: 2024-03-26

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

##### 1.1. PRODUCT IDENTIFIER:

|                         |                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------|
| MIXTURE IDENTIFICATION: | Solid washing detergent.                                                                                         |
| MIXTURE PACKAGING:      | 400 g (box), 2400 g (duopack), 8500 g (duopack)                                                                  |
| MIXTURE CONTAINS:       | ≥ 30 % Sodium Chloride, Sodium Carbonate, < 5 % anionic surfactants, soap, oxygen – based bleaching agent, TAED. |
| TRADE NAME:             | Washing Powder Doctor Wash Baby                                                                                  |
| TRADE CODE:             | -                                                                                                                |
| TRADE MARK:             | Wash&Free                                                                                                        |
| REACH REGISTRATION No.: | Not applicable. Mixture                                                                                          |
| MOLECULAR FORMULA:      | Not applicable. Mixture                                                                                          |
| MOLECULAR WEIGHT:       | Not applicable. Mixture                                                                                          |
| CAS No.:                | Not applicable. Mixture                                                                                          |
| EC No.:                 | Not applicable. Mixture                                                                                          |
| INDEX No.:              | Not applicable. Mixture                                                                                          |
| UFI Code:               | GHN2-K02Y-P00V-HSCJ                                                                                              |

##### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RECOMMENDED USE:      | Household. Use as detergent for washing. Apply the product for its intended purpose and according to the instruction. For additional information on the fields of use of this product, please contact us. |
| USES ADVISED AGAINST: | Uses other than those identified are not recommended                                                                                                                                                      |

##### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

|                                       |                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| MANUFACTURER:                         | LLC "UKRAINIAN-GERMAN COMPANY " 2K "                                                                                    |
| ADDRESS OF THE MANUFACTURER:          | Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine                                                            |
| TELEPHONE NUMBER OF THE MANUFACTURER: | +380676541082                                                                                                           |
| FAX NUMBER OF THE MANUFACTURER:       | -                                                                                                                       |
| E-MAIL OF THE MANUFACTURER:           | info@2k.company                                                                                                         |
| RESPONSIBLE PERSON IN EU:             | 2K Haushaltschemie GmbH, Lindenstr. 48-52, 40233 Düsseldorf, Germany, mailto: d.kushal85@gmail.com, Phone: 491787178800 |

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### 1.4. EMERGENCY CONTACTS:

LLC "UKRAINIAN-GERMAN COMPANY " 2K " (Office Hours)

#### 1.4. 1. Emergency telephone number for other countries:

| Country        | Official advisory body                                                                                       | Address                                                                                     | Emergency number                                                                                                                                             |
|----------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUSTRIA        | Austrian National Public Health Institute (GÖG)<br>Vergiftungsinformationszentrale (VIZ)                     | Stubenring 6, 1010 Vienna, Austria<br>T: +43 1 515 61-161<br>M: +43 676 848 191-661         | Notruf 0-24 Uhr: 01 406 43 43<br>Euro-Notruf: 112<br>Rettung: 144<br>Ärztefunkdienst: 141                                                                    |
| BELGIUM        | BELGIAN POISON CENTER<br>(BELGISCH ANTIGIFCENTRUM)                                                           | Poison Control Center<br>c/o Military Hospital Queen Astrid<br>Bruynstraat 1, 1120 Brussels | 070 245 245 (free, 24/7)<br>If unreachable, tel. 02 264 96 30<br>(normal rate)<br>8002 5500, from Grand Duchy of Luxembourg<br>every day, free 24 /7         |
| BULGARIA       | National Toxicology Center,<br>Hospital for Active Medical Treatment<br>and Emergency Medicine "N.I.Pirogov" | Ministry of Health, 5, „Sveta<br>Nedelya“ sq., Sofia 1000                                   | Emergency number/ fax:<br>+359 2 9154 233<br>The service is available 24/7 and the<br>communication language is Bulgarian<br>+359 2 9154 409,                |
| CROATIA        | Poison Control Centre<br>Institute of Medical Research &<br>Occupational Health                              | Ksaverska Cesta 2<br>P.O. Box 291<br>HR-10000 Zagreb                                        | +385 1 234 8342 Information available<br>24/7 in Croatian and English.                                                                                       |
| CZECH REPUBLIC | Poisons Information Centre<br>Clinic For Occupational Medicine, 1st<br>Medical Faculty, Charles University   | Na Bojisti 1<br>128 00 Prague 2                                                             | 224 91 92 93<br>224 91 54 02<br>+42 2 2491 9293<br>+42 2 2491 5402                                                                                           |
| DENMARK        | Poisons Information Centre<br>Bispebjerg Hospital                                                            | Bispebjerg Bakke 23, 60, 1<br>DK-2400 Copenhagen NV                                         | +45 82 12 12 12<br>+45 35 31 55 55<br>Danish Poison Center (Giftlinjen): +45<br>8212 1212                                                                    |
| ESTONIA        | Estonian Emergency Response Centre                                                                           | Osmussaare 2, 13811 Tallinn<br>General info: 6287 400                                       | National emergency telephone number<br>(Häirekeskuse number) is 112<br>Mürgistusteabekeskuse infoliin 16662<br>(välisriigist helistades (+372)7943794)       |
| FINLAND        | Poisons Information Centre                                                                                   | P.O.B 790 (Tukholmankatu 17) HUS<br>SF - 00029 Helsinki                                     | Medical Helpline 116117<br>Open 24 hours a day 0800 147 111 (the<br>call is free of charge) 09 471 977 +358 9<br>471 977                                     |
| FRANCE         | Poison Control Center<br>(Centre Antipoison ORFILA)                                                          | Hôpital Fernand Widal<br>200 rue du faubourg St-Denis<br>75475 Paris Cedex 10               | numéro ORFILA (INRS): + 33 (0)1 45<br>42 59 59 (for free 24/7)<br>+33 (0)1 45 42 59 59                                                                       |
| GERMANY        | "2K" Haushaltschemie GmbH                                                                                    | Lindenstr. 48-52, 40233 Düsseldorf,<br>Germany                                              | +491787178800                                                                                                                                                |
| GREESE         | Poison Information Centre<br>Children's Hospital P&A Kyriakou                                                | Athens 11762<br>Greece                                                                      | Emergency number: (0030)<br>2107793777 24 hours/day<br>Fax: 00302107486114<br>+30 10 779 3777                                                                |
| HUNGARY        | Health Toxicology Information Service                                                                        | 1097 Budapest, Albert Flórián út 2-6.                                                       | +36 80 201 199 (0-24 hours, free of<br>charge - only from Hungary)<br>+36 1 476 6464 (0-24 hours, can be<br>called for a standard fee - also from<br>abroad) |

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|                               |                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICELAND                       | Poison control center                                                                                                                                                                          | Fossvogi<br>108 Reykjavik                                                           | +354 543 2222<br>+354 543 1000<br>112                                                                                                                                                                                                  |
| IRELAND (REPUBLIC OF IRELAND) | The National Poisons Information Centre (NPIC)                                                                                                                                                 | Beaumont Hospital Beaumont Road<br>9 Dublin                                         | 01 809 2566                                                                                                                                                                                                                            |
| ITALY                         | Centro Antiveleni (Poisons Centre)<br>Dipartimento di Tossicologia Clinica,<br>Universita Cattolica del Sacro Cuore                                                                            | Largo Agostino Gemelli 8<br>I-00168 Roma                                            | +39 06 305 4343                                                                                                                                                                                                                        |
| LATVIA                        | Toxicology and Sepsis Clinic,<br>information on poisoning and medicinal<br>products;<br>State fire and rescue service:                                                                         | 2 Hipokrāta Street, Riga, LV-1038                                                   | +371 67042473<br>(+371) 112; (+371) 113                                                                                                                                                                                                |
| LITHUANIA                     | Poisons Control and Information<br>Bureau                                                                                                                                                      | Siltnamiu 29<br>2043 Vilnius                                                        | +370 2 36 20 52<br>+370 2 36 20 92                                                                                                                                                                                                     |
| THE NETHERLANDS               | UMC Utrecht<br>Heidelberglaan 100<br>3584 CX Utrecht                                                                                                                                           | Heidelberglaan 100<br>3584 CX UTRECHT<br>Reception 1 (level 0), UMC Utrecht<br>site | NVIC: +31 (0)88 755 8000: Only for the<br>purpose of informing medical personnel<br>in case of acute intoxications' or in<br>Dutch: 'Uitsluitend bestemd om<br>professionele hulpverleners te<br>informereren bij acute vergiftigingen |
| NORWAY                        | Poisons Information<br>Directorate of Health and Social Affairs                                                                                                                                | P.O. Box 7000<br>St. Olavs Plass 130 Oslo                                           | +47 22 591300                                                                                                                                                                                                                          |
| POLAND                        | Warsaw Poison Control and<br>Information Centre                                                                                                                                                | Al.Solidarnosci 67<br>P-03 401 Warszawa                                             | +48 22 619 66 54<br>+48 22 619 08 97                                                                                                                                                                                                   |
| PORTUGAL                      | Centro de Informação Antivenenos –<br>Dra Arlinda Borges<br>Instituto Nacional de Emergência<br>Médica (INEM)                                                                                  | Rua Almirante Barroso, 36<br>1000-013 Lisboa                                        | Portugal CIAV phone number: +351<br>800 250 250<br>808 250 143 (for use only<br>in Portugal),<br>+351 21 330 3284                                                                                                                      |
| ROMANIA                       | TOXAPEL<br>Emergency Clinical Hospital for<br>Children "Grigore Alexandrescu"                                                                                                                  | Boulevardul Iancu de Hunedoara 30-<br>32<br>Bucharest                               | Phone number: +40213183606<br>+40 2121 06282<br>+40 2121 06183                                                                                                                                                                         |
| SLOVAKIA                      | National Toxicological Information<br>Centre<br>University Hospital Bratislava                                                                                                                 | Limbová 5<br>833 05 Bratislava                                                      | +421 2 54 77 4 166                                                                                                                                                                                                                     |
| SLOVENIA                      | Poison Centre<br>Division of Internal Medicine                                                                                                                                                 | University Clinical Centre Zaloska 7<br>1525 Ljubljana                              | Phone number: 112<br>+ 386 41 650 500                                                                                                                                                                                                  |
| SPAIN                         | Servicio de Información Toxicológica<br>Instituto Nacional de Toxicología,<br>Departamento de Madrid                                                                                           | Calle Luis Cabrera 9<br>E-28002 Madrid                                              | National Emergency Telephone<br>Number of Spanish Poison Centre: +<br>34 91 562 04 20 The information will be<br>provided in Spanish (available 24h/365<br>days): health personnel & general<br>public (poisoning cases)               |
| SWEDEN                        | Giftinformationscentralen<br>Swedish Poisons Information Centre,<br>Karolinska Hospital                                                                                                        | Box 60 500<br>SE-171 76 Stockholm                                                   | "112 – ask for Poisons Information" (in<br>Swedish this will be: "112 – begär<br>Giftinformation"<br>+46 8 33 12 31 (International)                                                                                                    |
| UKRAINE                       | Institute of Hygiene and Toxikology,<br>Науковий центр превентивної<br>токсикології, харчової та хімічної<br>безпеки імені академіка Л.І. Медведя<br>Міністерства охорони здоров'я<br>України. | вулиця Героїв Оборони, 6, Київ,<br>Україна, 03680                                   | +38 (044) 526-97-00                                                                                                                                                                                                                    |
| UKRAINE                       | LLC "UKRAINIAN-GERMAN<br>COMPANY " 2K "                                                                                                                                                        | Passage by Yuri Kozlovsky, 7/1,<br>29016, Khmelnytskyi,<br>Ukraine                  | +380676541082<br><a href="mailto:info@2k.company">info@2k.company</a>                                                                                                                                                                  |

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### SECTION 2: Hazards identification

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

| GHS pictograms and signal word:                                                              | In accordance with Regulation No 1272/2008 (CLP) |                                |
|----------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|
| <br>Warning | <b>Skin Irrit. 2, H315</b>                       | Causes skin irritation.        |
|                                                                                              | <b>Eye Irrit. 2, H319</b>                        | Causes serious eye irritation. |

#### 2.2. LABEL ELEMENTS

##### Labelling according to Regulation (EC) No 1272/2008 (CLP)

The product is classified and labelled according to the CLP regulation

|                                             |                                                                                                                                                                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS pictograms and signal word:             | <br>GHS07<br>Warning                                                                                                                 |
| Hazard statements                           | H315 Causes skin irritation.<br>H319 Causes serious eye irritation.                                                                                                                                                     |
| Dimension of the pictogram (in millimetres) | <u>Capacity of the package</u> : ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16.<br><u>Capacity of the package</u> : > 3 litres but ≤ 50 litres: at least 23x23.                                       |
| Dimension of the label (in millimetres)     | <u>Capacity of the package</u> : ≤ 3 litres: if possible, at least 52x74.<br><u>Capacity of the package</u> : > 3 litres but ≤ 50 litres: at least 74x105.                                                              |
| Precautionary Statement Prevention          | P102 Keep out of reach of children.<br>P264 Wash hands thoroughly after handling.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.                                                    |
| Precautionary Statement Response            | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/ attention. |
| Precautionary Statement Storage             | ---                                                                                                                                                                                                                     |
| Precautionary Statement Disposal            | P501 Dispose of contents/container in accordance with local, regional, national and international regulations.                                                                                                          |

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|                                                                                                                                            |                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Supplemental label elements:</b>                                                                                                        | ≥ 30 % Sodium Chloride, Sodium Carbonate, < 5 % anionic surfactants, soap, oxygen – based bleaching agent, TAED. |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:</b> | None                                                                                                             |
| <b>Special packaging requirement</b>                                                                                                       |                                                                                                                  |
| <b>Containers to be fitted with child-resistant fastenings:</b>                                                                            | Not applicable.                                                                                                  |
| <b>Tactile warning of danger: shall be fitted with a tactile warning of danger.</b>                                                        | Not applicable.                                                                                                  |

**2.3 OTHER HAZARDS:**

No other hazards are known.

**2.4. RESULTS OF PBT UN vPvB ASSESSMENT:**

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

### SECTION 3: Composition/information on ingredients

**3.1. SUBSTANCES:**

Not applicable

**3.2. MIXTURES:**

Household product based on below mentioned hazardous ingredients:

| HAZARDOUS COMPONENTS:                                |                                                        |            |                     |                                                                      |                          |
|------------------------------------------------------|--------------------------------------------------------|------------|---------------------|----------------------------------------------------------------------|--------------------------|
| INGREDIENT'S NAME;<br>(INCI Name)                    | EC No /<br>EC Index No/<br>REACH No                    | CAS No     | Percentage,<br>m. % | Classification<br>REGULATION (EC)<br>No 1272/2008                    | SCL/<br>M-factor/<br>ATE |
| Sodium Chloride*                                     | 231-598-3/<br>Not applicable/<br>Not applicable        | 7647-14-5  | 70 - 90             | Not classified                                                       | -                        |
| Sodium Carbonate                                     | 207-838-8/<br>011-005-00-2/<br>01-2119485498-19-0013   | 497-19-8   | 10 – 13             | Eye Irrit. 2, H319                                                   | -                        |
| Fatty acids, coco, sodium salts<br>(Sodium Cocoate)  | 263-050-4/<br>Not applicable/<br>Not available         | 61789-31-9 | 1 – 4               | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                            | -                        |
| Benzenesulphonic acid, 4-C10-<br>13-sec-alkyl derivs | 287-494-3/<br>Not applicable/<br>01-2119490234-40-0013 | 85536-14-7 | 0.9 – 1.9           | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Aquatic Chronic 3, H412 | -                        |

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|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------|-----------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Silicic acid, sodium salt<br>( <i>Sodium metasilicate</i> )                                           | 215-687-4/<br>Not applicable/<br>Not available     | 1344-09-8  | 0.7 – 1.0 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335 | -                                                                                                              |
| Disodium carbonate, compound<br>with hydrogen peroxide (2:3);<br>( <i>Sodium carbonate peroxide</i> ) | 239-707-6/≥<br>Not applicable/<br>01-2119457268-30 | 15630-89-4 | 0.1 – 0.3 | Ox. Sol. 2, H272<br>Acute Tox. 4, H302<br>Eye Dam. 1, H318                       | Specific Conc.<br>Limits:<br>Eye Dam. 1,<br>H318:<br>C > 25 %<br>Eye Irrit. 2,<br>H319:<br>7.5 % ≤ C < 25<br>% |

\* - ingredients with limit values that require monitoring at the workplace.

ADDITIONAL INFORMATION: None.

### SECTION 4: First aid measures

#### 4.1. DESCRIPTION OF FIRST AID MEASURES

- SKIN PROBLEM:** Wash with plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
- EYE CONTACT:** Immediately flush with plenty of water for several minutes. After initial flushing, remove any contact lenses and continue flushing. Keep eye wide open while rinsing. Immediately call a POISON CENTER/doctor.
- INGESTION:** Rinse mouth with water. Do not induce vomiting. Give plenty of water to drink. Seek medical advice.
- INHALATION:** If respiratory irritation occurs, remove casualty to fresh air and keep warm and at rest. Allow the victim to rest. Consult physician if necessary.

#### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Causes skin irritation. Causes serious eye irritation.

#### 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:** Use chemical foam, dry chemical, carbon dioxide, sand or water fog.

**Extinguishing media which must not be used for safety reasons:** Water jet

- 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:** In case of fire, toxic incineration products may be released such as: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen chloride. Do not inhale explosion and combustion gases. Burning produces heavy smoke.

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EXPLOSION HAZARD: Non hazardous

#### 5.3. ADVICE FOR FIREFIGHTERS:

Contact emergency personnel. Use selfcontained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, sulphur, nitrogen and/or derivatives.

#### 5.4. ADDITIONAL INFORMATION:

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:

##### PERSONAL PRECAUTIONS:

Wear personal protection equipment (see section 8). Keep persons away.

##### 6.2. ENVIRONMENTAL PRECAUTIONS:

Do not allow product to enter waters without treatment in a (biological) water treatment plant.

##### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Small spillages: Mechanically recover the product or flush away spillage with plenty of water.  
Large spillages: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Collect large amounts in suitable container. Dispose of contaminated material as waste according to section 13. Provide adequate ventilation.

##### 6.4. REFERENCE TO OTHER SECTIONS:

See also section 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for Safe Handling:

**For Household Settings:** Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

**For Non-Household Settings:**

Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

#### 7.2. Conditions for Safe Storage:

**For Household Settings:** Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

**For Non-Household Settings:** Protect from sunlight and do not expose to temperatures exceeding +25°C. Keep from extreme cold. Store in a ventilated, cool area. Store in closed container in dry place. Keep out of reach of children.

##### 7.3. SPECIFIC END USE (S):

Use only as directed.

##### 7.4. OTHER MEASURES:

Keep frost-free, in a cool, dry and ventilated area (<25° C).  
Protect from sunlight and keep away from heat.



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### SECTION 8: Exposure controls/personal protection

**8.1. For Household Settings:** This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

**8.1.2. For Non-Household Settings:** Use in a ventilated area. Use safety glasses or safety goggles if airborne mist hazards exist; use gloves and other protective clothing (apron, boots etc.) to prevent skin contact. Always follow good hygienic work practices. Avoid prolonged contact with skin and clothing. This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

#### 8.1.2.1. CONTROL PARAMETERS:

| Ingredients Name: | CAS No.   | TWA, 8 hours         | STEL, 15 min. |
|-------------------|-----------|----------------------|---------------|
| Sodium Chloride   | 7647-14-5 | 5* mg/m <sup>3</sup> | -             |

\* Republic of Latvia Cabinet Regulation No. 325 Adopted on 15 May 2007 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 and NOAEL or NOAEC Values (ECHA data)**

| Substance name                                                          | End use   | Exposure routes | Potential health effects   | DNEL Level                | NOAEL or NOAEC values                 |
|-------------------------------------------------------------------------|-----------|-----------------|----------------------------|---------------------------|---------------------------------------|
| Sodium Chloride<br>CAS No: 7647-14-5                                    | Workers   | Inhalation      | Long-term systemic effects | 2068.62 mg/m <sup>3</sup> | -                                     |
|                                                                         | Workers   | Dermal          | Long-term systemic effects | 295.52 mg/kg bw/day       | -                                     |
|                                                                         | Consumers | Inhalation      | Long-term systemic effects | 443.28 mg/m <sup>3</sup>  | -                                     |
|                                                                         | Consumers | Dermal          | Long-term systemic effects | 126.65 mg/kg bw/day       | -                                     |
|                                                                         | Consumers | Oral            | Long-term systemic effects | 126.65 mg/kg bw/day       | -                                     |
| Sodium Carbonate<br>CAS No.: 497-19-8                                   | Workers   | Inhalation      | Long-term systemic effects | 10 mg/m <sup>3</sup>      | -                                     |
|                                                                         | Consumers | Inhalation      | Long-term systemic effects | 5 mg/m <sup>3</sup>       | -                                     |
| Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs<br>CAS No.: 85536-14-7 | Workers   | Inhalation      | Long-term systemic effects | 12 mg/m <sup>3</sup>      | 188.8 mg/m <sup>3</sup> (NOAEC) (rat) |
|                                                                         | Workers   | Dermal          | Long-term systemic effects | 1709 mg/kg bw/day         | 85 mg/kg bw/day (NOAEL, rat)          |
|                                                                         | Consumers | Inhalation      | Long-term systemic effects | 3 mg/m <sup>3</sup>       | 66.5 mg/m <sup>3</sup> (NOAEC) (rat)  |
|                                                                         | Consumers | Dermal          | Long-term systemic effects | 85 mg/kg bw/day           | 85 mg/kg bw/day (NOAEL, rat)          |
|                                                                         | Consumers | Oral            | Long-term systemic effects | 0.85 mg/kg bw/day         | 85 mg/kg bw/day (NOAEL) (rat)         |



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in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020



## WASHING POWDER DOCTOR WASH BABY

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| Substance name                                                                                                   | End use   | Exposure routes | Potential health effects   | DNEL Level             | NOAEL or NOAEC values |
|------------------------------------------------------------------------------------------------------------------|-----------|-----------------|----------------------------|------------------------|-----------------------|
| Silicic acid, sodium salt (Sodium metasilicate)<br>CAS No.: 1344-09-8                                            | Workers   | Inhalation      | Long-term systemic effects | 5.61 mg/m <sup>3</sup> | -                     |
|                                                                                                                  | Workers   | Dermal          | Long-term systemic effects | 1.59 mg/kg bw/day      | -                     |
|                                                                                                                  | Consumers | Inhalation      | Long-term systemic effects | 1.38 mg/m <sup>3</sup> | -                     |
|                                                                                                                  | Consumers | Dermal          | Long-term systemic effects | 0.8 mg/kg bw/day       | -                     |
|                                                                                                                  | Consumers | Oral            | Long-term systemic effects | 0.8 mg/kg bw/day       | -                     |
| Disodium carbonate, compound with hydrogen peroxide (2:3);<br>(Sodium carbonate peroxide)<br>CAS No.: 15630-89-4 | Workers   | Inhalation      | Long-term systemic effects | 5 mg/m <sup>3</sup>    | -                     |
|                                                                                                                  | Workers   | Dermal          | Long-term systemic effects | 12.8 mg/m <sup>2</sup> | -                     |
|                                                                                                                  | Consumers | Dermal          | Long-term systemic effects | 6.4 mg/m <sup>2</sup>  | -                     |

### 8.2. EXPOSURE CONTROLS:



#### PERSONAL PROTECTIVE EQUIPMENT:

#### GENERAL PROTECTIVE AND HYGIENIC MEASURES:

Avoid contact with the eyes. Wash hands during work breaks and at the end of the shift. Provide skin protection plan. Ensure there is sufficient ventilation of the area.

#### RESPIRATORY PROTECTION:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection necessary at: Aerosol or mist formation. Type: E (against acidic gases like sulphur dioxide or hydrogen chloride, colour code: yellow).

#### BODY PROTECTION:

Protective clothing and footwear.

#### EYE PROTECTION:

Safety goggles

#### PROTECTION OF HANDS:

Protective gloves. Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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Breakthrough time (maximal wear duration): Wear duration with occasional contact, splashes (Level 2: < 30 min): Disposable-gloves, Thickness of the material 0,1mm. Wear duration with permanent contact (Level 6: < 480min): Protective gloves, Thickness of the glove material 0,7 mm. Breakthrough times and swelling properties of the material must be taken into consideration.

- material of gloves:

Nitrile rubber, NBR

- gloves made of the following materials are not suitable:

Gloves for mechanical protection do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

The operators shall be instructed adequately.  
The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

## SECTION 9: Physical and chemical properties

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|                                                     |                              |
|-----------------------------------------------------|------------------------------|
| APPEARANCE:                                         | Solid (powder)               |
| COLOUR:                                             | White                        |
| ODOUR:                                              | Characteristic               |
| pH – VALUE AT 20 °C:                                | 9.0 – 10.5                   |
| MAXIMUM FOAM HEIGHT, % OF THE SCALE, NOT MORE THAN: | Not determined               |
| MELTING POINT/MELTING RANG:                         | Not applicable               |
| BOILING POINT (°C):                                 | No data available            |
| FREEZING POINT (°C):                                | Not applicable               |
| FLASH POINT:                                        | Not determined               |
| DECOMPOSITION TEMPERATURE (°C):                     | Not determined               |
| EXPLOSIVE HAZARDS:                                  | Product is not explosive     |
| AUTO-IGNITION TEMPERATURE:                          | Product is not selfigniting. |
| OXIDIZING PROPERTIES:                               | Not applicable               |
| SOLUBILITY IN WATER:                                | Completely soluble           |
| FLAMMABILITY (solid, gaseous):                      | No data available            |

### 9.2. OTHER INFORMATION:

|                                        |                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| PARTITION COEFFICIENT: n-OCTANOL/WATER | log $K_{ow}$ = - 6.19 (Sodium carbonate);<br>log $K_{ow}$ = 2.2 (Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs); |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|

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% VOC:

Complies with EC regulations for VOC content.

### SECTION 10: Stability and reactivity

- 10.1. REACTIVITY: Stable under recommended transport or storage conditions
- 10.2. CHEMICAL STABILITY: Stable under normal conditions
- 10.3. POSSIBILITY OF HAZARDOUS REACTION: None
- 10.4. CONDITIONS TO AVOID: Avoid heat, sunlight. Store away from oxidizers.
- 10.5. INCOMPATIBLE MATERIALS: Acids, alkali, oxidizing agents
- 10.6. HAZARDOUS DECOMPOSITION PRODUCTS: No data available

### SECTION 11: Toxicological information

This is a household product that is safe for consumers and other users under intended and reasonably foreseeable use. Product is not classified as Toxic. Additional information on toxicological endpoints is available from the supplier upon request.

#### 11.1. INFORMATION ON MIXTURE INGREDIENTS TOXICOLOGICAL EFFECTS:

##### ACUTE TOXICITY:

##### Hazardous Ingredients:

| Ingredients Name:                                                                               | CAS No.    | Composition Range, % | LD50/LC50 (oral)        | LD50/LC50 (dermal)         |
|-------------------------------------------------------------------------------------------------|------------|----------------------|-------------------------|----------------------------|
| Sodium Chloride                                                                                 | 7647-14-5  | 70 - 90              | LD50= 3550 mg/kg (Rat)  | LD50 >10000 mg/kg (Rabbit) |
| Sodium Carbonate                                                                                | 497-19-8   | 10 – 13              | LD50=2800 mg/kg (Rat)   | LD50 >2000 mg/kg (Rabbit)  |
| Fatty acids, coco, sodium salts ( <i>Sodium Cocoate</i> )                                       | 61789-31-9 | 1 – 4                | LD50 = >2000 mg/kg      | LD50 = >2000 mg/kg         |
| Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs                                                | 85536-14-7 | 0.9 – 1.9            | LD50 = 1470 mg/kg (Rat) | LD50 >2000 mg/kg (Rat)     |
| Silicic acid, sodium salt ( <i>Sodium metasilicate</i> )                                        | 1344-09-8  | 0.7 – 1.0            | LD50 = 3400 mg/kg (Rat) | LD50 = >5000 mg/kg (Rat)   |
| Disodium carbonate, compound with hydrogen peroxide (2:3); ( <i>Sodium carbonate peroxide</i> ) | 15630-89-4 | 0.1 – 0.3            | LD50 = 1034 mg/kg (Rat) | LD50 >2000 mg/kg (Rabbit)  |

#### PRIMARY IRRITANT EFFECT:

- ON THE SKIN: Causes skin irritation.
- ON THE EYE: Causes serious eye irritation.
- INHALATION: There may be irritation of the throat with a feeling of

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#### INGESTION:

tightness in the chest. Exposure may cause coughing or wheezing. Risk of pulmonary oedema.

There may be soreness and redness of the mouth and throat. Caustic effect on mucous membranes.

#### SENSITISATION:

No sensitisation effect known

#### CHRONIC EFFECT:

No chronic effect known

#### CARCINOGENICITY:

Finished product is not expected to be carcinogenic

#### TARGET ORGANS:

No adverse health effects on target organs expected for finished product.

#### MUTAGENICITY:

No mutagenic effect known

#### TOXICAL EFFECT ON THE REPRODUCTIVE SYSTEM:

No toxic effect known

### SECTION 12: Ecological information

**12.1. TOXICITY:** The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

#### 12.1.1. INFORMATION ON MIXTURE INGREDIENTS ECOTOXICOLOGICAL EFFECTS:

| AQUATIC TOXICITY:                                           |                                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 7647-14-5 Sodium Chloride                                   |                                                                                                                          |
| EC <sub>50</sub> / 48 h                                     | 1900 mg/l - ( <i>Daphnia magna</i> )                                                                                     |
| EC <sub>50</sub> / 120 h                                    | 2430 mg/l - ( <i>Nitzschia linearis</i> )                                                                                |
| LC <sub>50</sub> / 96 h                                     | 5840 mg/l - Fish                                                                                                         |
| 497-19-8 Sodium Carbonate                                   |                                                                                                                          |
| EC <sub>50</sub> / 48 h                                     | 200 mg/l - ( <i>Ceriodaphnia sp.</i> )                                                                                   |
| EC <sub>50</sub> / 72 h                                     | >800 mg/l - Algae                                                                                                        |
| LC <sub>50</sub> / 96 h                                     | 300 mg/l - Fish                                                                                                          |
| 85536-14-7 Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs |                                                                                                                          |
| EC <sub>50</sub> / 48 h                                     | 2.9 mg/l - ( <i>Daphnia magna</i> )                                                                                      |
| LC <sub>50</sub> / 96 h                                     | 1.67 mg/l - Fish ( <i>Lepomis macrochirus</i> )                                                                          |
| 1344-09-8 Silicic acid, sodium salt                         |                                                                                                                          |
| EC <sub>50</sub> / 48 h                                     | 1700 mg/l - ( <i>Daphnia magna</i> )                                                                                     |
| EC <sub>50</sub> / 72 h                                     | 207 mg/l - ( <i>Scenedesmus subspicatus</i> , biomass)<br>> 345.4 mg/l - ( <i>Scenedesmus subspicatus</i> , growth rate) |
| LC <sub>50</sub> / 96 h                                     | 1108 mg/l - Fish ( <i>Brachydanio rerio</i> )<br>260 - 310 mg/l - Fish ( <i>Onchorhynchus mykiss</i> )                   |

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**15630-89-4 Disodium carbonate, compound with hydrogen peroxide (2:3); (Sodium carbonate peroxide)**

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| EC <sub>50</sub> / 48 h | 4.9 mg/l - ( <i>Daphnia pulex</i> )             |
| EC <sub>50</sub> / 72 h | 8-160 mg/l – Algae                              |
| LC <sub>50</sub> / 96 h | 70.7 mg/l – Fish ( <i>Pimephales promelas</i> ) |

#### 12.2. PERSISTENCE AND DEGRADABILITY:

##### ASSESSMENT BIODEGRADATION AND ELIMINATION:

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

| Ingredient                                       | Biodegradability | Days (OECD Guideline 301 B; 301 D, 301 F, 301 E and 302 B) |
|--------------------------------------------------|------------------|------------------------------------------------------------|
| Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs | 96 %             | 28 days and 10 days window is met                          |

#### 12.3. BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate

| Ingredient                                       | BCF                                                                               | Note                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|
| Sodium Carbonate                                 | Does not bioaccumulate. The substance dissociates fully on introduction to water. |                        |
| Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs | Range from 2 to 1000 l/kg with increasing alkyl chain length.                     | Bioaccumulation is low |
| Silicic acid, sodium salt                        | Low potential for bioaccumulation.                                                |                        |

**12.4. MOBILITY IN SOIL:** Soluble in water. The product is predicted to have high mobility in soil.

| Ingredient                                       | Adsorption coefficient log K <sub>oc</sub> | Note                                                                                                                                                   |
|--------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs | 3.4                                        | In the key study (Temminck and Klapwijk 2004), the adsorption-desorption of LAS (read across) in activated sludge was determined in batch experiments. |

#### ASSESSMENT TRANSPORT BETWEEN

**ENVIRONMENTAL COMPARTMENTS:** Adsorption to solid soil phase is possible.

#### ADDITIONAL ECOLOGICAL INFORMATION:

**AOX-INDICATION:** The product does not contain substances, which can influence the AOX of waste water.

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THE FORMULATION CONTAINS THE FOLLOWING HEAVY METALS AND THEIR COMPOUNDS ACCORDING TO DIRECTIVE 2006/11/EC (ANNEX 1):

None

#### GENERAL NOTES:

Sewages that contain this product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

#### 12.5. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

#### 12.6. ENDOCRINE DISRUPTING PROPERTIES:

This product does not contain any known or suspected endocrine disruptors.

#### 12.7. OTHER ADVERSE EFFECTS:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. No other adverse environmental effects (e.g. Ozone depletion, photochemical ozone creation potential, endocrine disruption).

### SECTION 13: Disposal considerations

#### 13.1. For Household Settings:

The following instructions are for consumer usage only. Empty can through normal use as instructed on the can. Consumer produced household solutions may be disposed of down the drain with running water. Consumer may discard empty container in trash, or recycle where facilities exist.

**13.2. For Non-Household Settings:** Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste. Disposal should be in accordance with all local, regional, national and international regulations.

#### 13.2.2. WASTE TREATMENT METHODS:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste. Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations.

| EUROPEAN WASTE CATALOGUE |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| EWCODE                   | Description                                                                                       |
| 20 01 29*                | Detergents containing dangerous substances<br>(Waste code applies to unused product)              |
| 15 01 01                 | Paper and cardboard packaging<br>(Waste code applies to packaging containing residues of product) |
| 15 01 02                 | Plastic packaging<br>(Waste code applies to packaging containing residues of product)             |

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#### CONTAMINATED PACKAGING:

##### RECOMMENDATION:

##### RECOMMENDED CLEANING AGENT:

Water. In single quantities packaging can be apply again or disposed in household waste container.

### SECTION 14: Transport information

|                                               |                        |
|-----------------------------------------------|------------------------|
| 14.1. UN NUMBER:                              | None                   |
| 14.2. UN PROPER SHIPPING NAME:                |                        |
| ADR, IATA, IMDG                               | None                   |
| 14.3. TRANSPORT HAZARD CLASS (ES):            | None hazardous product |
| ADR, IATA, IMDG                               |                        |
| CLASS                                         | None                   |
| 14.4. PACKING GROUP:                          |                        |
| ADR, IATA, IMDG                               | N.a.                   |
| 14.5. ENVIRONMENAL HAZARDS:                   |                        |
| ADR-ENVIROMENTAL POLLUTANT                    | No data available      |
| MARINE POLLUTANT                              | No data available      |
| 14.6. SPECIAL PRECAUTIONS FOR USER:           | None                   |
| 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II |                        |
| OF MARPOL 73/78 AND THE IBC CODE:             | Not applicable         |
| TRANSPORT/ADDITIONAL INFORMATION:             | No                     |
| UN "MODEL REGULATION"                         | No                     |

### SECTION 15: Regulatory information

While the finished product(s) is considered hazardous, this MSDS contains valuable information critical to the safe handling and proper use of the product.

#### 15.1. SAFETY, HEALTH AND ENVIROMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

**REGULATION** (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 **on detergents.**

**REGULATION** (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (**REACH**), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC)



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No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community

**REGULATION (EC)** No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**COMMISSION REGULATION (EU)** No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the REACH.

#### INFORMATION ABOUT LIMITATION OF USE:

Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

#### REGULATIONS WHICH MAY APPLY IN EVENT OF ACCIDENT: CONTROL OF MAJOR ACCIDENT HAZARDS (COMAH):

This substance/mixture is not subject to ordinance on industrial accidents (substance list, Annex I).

#### 15.2. CHEMICAL SAFETY ASSESSMENT:

Not required.

### SECTION 16: Other information

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| <b>Ox. Sol. 2</b>        | Oxidising Solids - Hazard Category 2                                                              |
| <b>Met. Corr. 1</b>      | Corrosive to metals – Hazard Category 1                                                           |
| <b>Acute Tox. 4</b>      | Acute toxicity - Hazard Category 4                                                                |
| <b>Skin Corr. 1B/1C</b>  | Skin corrosion – Hazard Category 1B/1C                                                            |
| <b>Skin Irrit. 2</b>     | Skin irritation – Hazard Category 2                                                               |
| <b>Skin Sens. 1</b>      | Skin Sensitisation – Hazard Category 1                                                            |
| <b>Eye Dam. 1</b>        | Eye Damage – Hazard Category 1                                                                    |
| <b>Eye Irrit. 2</b>      | Eye irritation – Hazard Category 2                                                                |
| <b>STOT SE 3</b>         | Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation |
| <b>Aquatic Chronic 2</b> | Chronic aquatic toxicity - Hazard Category 2                                                      |
| <b>Aquatic Chronic 3</b> | Chronic aquatic toxicity - Hazard Category 3                                                      |
| <b>H272</b>              | May intensify fire; oxidiser                                                                      |
| <b>H290</b>              | May be corrosive to metals                                                                        |

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|      |                                                   |
|------|---------------------------------------------------|
| H302 | Harmful if swallowed                              |
| H314 | Causes severe skin burns and eye damage           |
| H315 | Causes skin irritation                            |
| H317 | May cause an allergic skin reaction               |
| H318 | Causes serious eye damage                         |
| H319 | Causes serious eye irritation                     |
| H335 | May cause respiratory irritation                  |
| H411 | Toxic to aquatic life with long lasting effects   |
| H412 | Harmful to aquatic life with long lasting effects |

#### ABBREVIATIONS AND ACRONYMS:

|                    |                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PBT:               | persistent, bioaccumulative, toxic                                                                                                                                                                                                                                                                                               |
| vPvB:              | persistent, very bioaccumulative                                                                                                                                                                                                                                                                                                 |
| EC:                | European Inventory of Existing Commercial Chemical Substances                                                                                                                                                                                                                                                                    |
| CAS:               | Chemical Abstracts Service (division of the American Chemical Society)                                                                                                                                                                                                                                                           |
| Index No.:         | International Substance Identification No. (Information related to the classification of substance including all C&L elements (i.e. hazard pictograms, signal words, codification of hazard and precautionary statements, specific concentration limits or M-factors, any cut-off values and supplemental labelling information) |
| AOX:               | Adsorbable Organohalogens                                                                                                                                                                                                                                                                                                        |
| ADR:               | European Agreement concerning the International Carriage of Dangerous Goods                                                                                                                                                                                                                                                      |
| IATA:              | International Air Transport Association                                                                                                                                                                                                                                                                                          |
| IMDG:              | International Maritime Code for Dangerous Goods                                                                                                                                                                                                                                                                                  |
| GHS:               | Globally Harmonized System of Classification and Labelling of Chemicals                                                                                                                                                                                                                                                          |
| LC <sub>50</sub> : | Median (50 %) lethal concentration                                                                                                                                                                                                                                                                                               |
| LD <sub>50</sub> : | Median (50%) lethal dose                                                                                                                                                                                                                                                                                                         |
| EC <sub>50</sub> : | Effective concentration, 50 percent                                                                                                                                                                                                                                                                                              |
| CLP:               | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and Mixtures                                                                                                                                                                                                                               |
| ECHA:              | European Chemicals Agency, Helsinki ( <a href="http://echa.europa.eu/home_en.asp">http://echa.europa.eu/home_en.asp</a> )                                                                                                                                                                                                        |
| TWA:               | Time Weighted Average                                                                                                                                                                                                                                                                                                            |
| STEL:              | Short Term Exposure Limit                                                                                                                                                                                                                                                                                                        |
| DNEL:              | Derived no-effect level is the level of exposure to a substance above which humans should not be exposed                                                                                                                                                                                                                         |
| NOAEL:             | No-Observed-Adverse-Effect Level                                                                                                                                                                                                                                                                                                 |
| NOAEC:             | No-Observed-Adverse-Effect Concentration                                                                                                                                                                                                                                                                                         |
| VOC:               | Volatile Organic Compounds                                                                                                                                                                                                                                                                                                       |

The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.