SAFETY DATA SHEET



FLIPR POTASSIUM ASSAY COMPONENT A

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

| 1.1 Product identifier | |
|--------------------------------|--|
| Product name | : FLIPR POTASSIUM ASSAY COMPONENT A |
| Product type | : Powder. |
| Product part number | : 🗚7452/R7462 |
| Kit name | : FLIPR POTASSIUM ASSAY EXPLORER KIT FLIPR POTASSIUM ASSAY BULK KIT |
| Kit part number | : R 8153/R8154 |
| 1.2 Relevant identified uses | of the substance or mixture and uses advised against |
| Product use | : For R&D use only. |
| Area of application | : Professional applications. |
| 1.3 Details of the supplier of | the safety data sheet |
| MOLECULAR DEVICES, LLC | |
| 3860 N First Street | |
| San Jose, CA 95134 USA | |
| | : msdsinquiry@moldev.com |
| responsible for this SDS | |
| | |
| 1.4 Emergency telephone nu | mber |
| National advisory body/Pois | son Centre |
| | |

Telephone number: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada),
+1 703-527-3887 (Outside USA/Canada)

SECTION 2: Hazards identification

| 2.1 Classification of the sub | stance or mixture | | |
|---|--|--|--|
| Product definition | : Mixture | | |
| Skin Irrit. 2, H315 Eye Irrit. 2, H319 | • Regulation (EC) No. 1272/2008 [CL | - | d. |
| Ingredients of unknown toxicity | : 15.9 percent of the mixture cons 15.9 percent of the mixture cons 22.6 percent of the mixture cons | ists of component(s) of ur ists of component(s) of ur | nknown oral toxicity nknown dermal toxicity |
| Ingredients of unknown ecotoxicity | : Contains 15.9 % of components | with unknown hazards to | the aquatic environment |
| Date of issue/Date of revision | : 24/01/2018 Date of previous issue | : 22/12/2010 | Version : 2 1/15 |

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SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

| 2.2 Label elements Hazard pictograms | : | |
|---|----|---|
| Signal word | : | Warning |
| Hazard statements | : | ₩319 - Causes serious eye irritation. H315 - Causes skin irritation. |
| Precautionary statements | | |
| Prevention | : | 280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling. |
| Response | : | ▶305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | 1 | Not applicable. |
| Disposal | : | Not applicable. |
| Supplemental label elements | : | Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : | Not applicable. |
| Special packaging requirement | en | t <u>s</u> |
| Containers to be fitted with child-resistant fastenings | : | Not applicable. |
| Tactile warning of danger | : | Not applicable. |
| 2.3 Other hazards | | |
| Other hazards which do not result in classification | : | May form explosible dust-air mixture if dispersed. |

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SECTION 3: Composition/information on ingredients

| 3.2 WIXLUIES | 3.2 | Mixtures | |
|--------------|-----|-----------------|--|
|--------------|-----|-----------------|--|

: Mixture

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Туре |
|---|---------------------------------|-----------|---|------|
| tetrasodium 3-hydroxy-4- (2-sulphonato-4- (4-sulphonatophenylazo)phenylazo) naphthalene-2,7-disulphonate | EC: 228-319-2 CAS: 6226-79-5 | ≥10 - <20 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above. | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006. Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|--|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |

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SECTION 4: First aid measures

| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
|----------------------------|--|
| Protection of first aidors | . No action shall be taken involving any personal risk or without suitable training. It |

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
|--------------|--|
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
|---------------------|--|
| Specific treatments | : No specific treatment. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media Suitable extinguishing media | : Use dry chemical powder. |
|--|----------------------------|
| Unsuitable extinguishing media | : Do not use water jet. |

5.2 Special hazards arising from the substance or mixture

| Hazards from the | : May form explosible dust-air mixture if dispersed. |
|----------------------|--|
| substance or mixture | |

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| SECTION 5: Firefighting measures | | |
|---|---|--|
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides | |
| 5.3 Advice for firefighters | | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. | |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. | |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|--|
| For emergency responders | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| 6.3 Methods and material for | containment and cleaning up |
| Small spill | : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. |

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SECTION 6: Accidental release measures

| 6.4 Reference to other sections | : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |
|---------------------------------|---|
|---------------------------------|---|

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Protective measures | : Vut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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SECTION 8: Exposure controls/personal protection

| Recommended monitoring procedures | : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. |
|--------------------------------------|--|
| | |

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

| 8.2 Exposure controls | | |
|-------------------------------------|---|---|
| Appropriate engineering controls | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. | у |
| Individual protection measure | | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing and using the lavatory and at the end of the working period. | |

Eye/face protection
 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Skin protection

Wash contaminated clothing before reusing. Ensure that eyewash stations and

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SECTION 8: Exposure controls/personal protection

| • | | • • |
|---------------------------------|----------|--|
| Body protection | b | Personal protective equipment for the body should be selected based on the task eing performed and the risks involved and should be approved by a specialist efore handling this product. |
| Other skin protection | S | ppropriate footwear and any additional skin protection measures should be elected based on the task being performed and the risks involved and should be pproved by a specialist before handling this product. |
| Respiratory protection | a re | ased on the hazard and potential for exposure, select a respirator that meets the ppropriate standard or certification. Respirators must be used according to a espiratory protection program to ensure proper fitting, training, and other important spects of use. |
| Environmental exposure controls | th Ci | Emissions from ventilation or work process equipment should be checked to ensure ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process quipment will be necessary to reduce emissions to acceptable levels. |
| | | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | | |
|---|------------------------------|----|
| Physical state | : Solid. [Crystalline powder | .] |
| Colour | : Brownish-red. [Dark] | |
| Odour | : Not available. | |
| Odour threshold | : Not available. | |
| рН | : Not available. | |
| Melting point/freezing point | : Not available. | |
| Initial boiling point and boiling range | : Not available. | |
| Flash point | : Not available. | |
| Evaporation rate | : Not available. | |
| Flammability (solid, gas) | : Not applicable. | |
| Upper/lower flammability or explosive limits | : Not available. | |
| Vapour pressure | : Not available. | |
| Vapour density | : Not available. | |
| Relative density | : Not available. | |
| Solubility(ies) | : Not available. | |
| Partition coefficient: n-octanol/ water | : Not available. | |
| Auto-ignition temperature | : Not available. | |
| Decomposition temperature | : Not available. | |
| Viscosity | : Not available. | |
| Explosive properties | : Not available. | |
| Oxidising properties | : Not available. | |
| | | |

: 24/01/2018 Date of previous issue

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SECTION 9: Physical and chemical properties

9.2 Other information

| Solubility in water | : Not available. |
|---------------------------------------|------------------------------|
| Physical/chemical properties comments | : No additional information. |

| SECTION 10: Stability and reactivity | | | |
|--|---|--|--|
| 10.1 Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. | |
| 10.2 Chemical stability | : | The product is stable. | |
| 10.3 Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur. | |
| 10.4 Conditions to avoid | : | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. | |
| 10.5 Incompatible materials | : | Reactive or incompatible with the following materials: oxidizing materials | |

| 10.6 Hazardous | : Under normal conditions of storage and use, hazardous decomposition products |
|------------------------|--|
| decomposition products | should not be produced. |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | - | |
|---------------------------|---|----------------|
| Acute toxicity | | |
| Conclusion/Summary | : | Not available. |
| Acute toxicity estimates | | |
| Not available. | | |
| Irritation/Corrosion | | |
| Conclusion/Summary | : | Not available. |
| Sensitisation | | |
| Conclusion/Summary | : | Not available. |
| Mutagenicity | | |
| Conclusion/Summary | : | Not available. |
| Carcinogenicity | | |
| | | |

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| SECTION 11: Toxico | lo | gical information | | | |
|--|-------------|---|---------------------|-------------------|------------------------------|
| Conclusion/Summary | : | Not available. | | | |
| Reproductive toxicity | | | | | |
| Conclusion/Summary | : | Not available. | | | |
| Teratogenicity | | | | | |
| Conclusion/Summary | : | Not available. | | | |
| Specific target organ toxici | <u>ty (</u> | <u>single exposure)</u> | | | |
| Product/ing | rec | lient name | Category | Route of exposure | Target organs |
| tetrasodium 3-hydroxy-4-(2-s (4-sulphonatophenylazo)phe 7-disulphonate | | | Category 3 | Not applicable. | Respiratory tract irritation |
| Specific target organ toxici Not available. | <u>ty (</u> | <u>repeated exposure)</u> | | | |
| Aspiration hazard Not available. | | | | | |
| Information on likely routes of exposure | : | Not available. | | | |
| Potential acute health effects | 5 | | | | |
| Eye contact | : | Zauses serious eye irritatio | on. | | |
| Inhalation | : | Exposure to airborne conc limits may cause irritation | | 2 | ended exposure |
| Skin contact | : | Causes skin irritation. | | | |
| Ingestion | : | No known significant effects or critical hazards. | | | |
| Symptoms related to the phy | <u>vsic</u> | al, chemical and toxicolog | gical characteristi | <u>CS</u> | |
| Eye contact | : | Adverse symptoms may in pain or irritation watering redness | clude the following | : | |
| Inhalation | : | Adverse symptoms may in respiratory tract irritation coughing | clude the following | : | |
| Skin contact | : | Adverse symptoms may in irritation redness | clude the following | : | |
| Ingestion | : | No specific data. | | | |
| Delayed and immediate effect | <u>ts :</u> | as well as chronic effects | from short and lo | ng-term exposure | 2 |

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| NENT A |
|--|
| logical information |
| : Not available. |
| : Not available. |
| |
| : Not available. |
| : Not available. |
| e <u>cts</u> |
| |
| : Not available. |
| : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : Not available. |
| ical information |
| |
| : Not available. |
| ability |
| : Not available. |
| ial |
| |
| : Not available. |
| : Not available. |
| B assessment |
| : Not applicable. |
| : Not applicable. |
| : No known significant effects or critical hazards. |
| |

Date of issue/Date of revision

: 22/12/2010

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | : The classification of the product may meet the criteria for a hazardous waste. |
| Packaging | |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

14.6 Special precautions for user

: **Fransport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

d the IBC Code

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SECTION 15: Regulatory information

| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
|---|
| EU Regulation (EC) No. 1907/2006 (REACH) |
| Annex XIV - List of substances subject to authorisation |
| Annex XIV |
| None of the components are listed. |
| Substances of very high concern |
| None of the components are listed. |
| Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles |
| Other EU regulations |
| Europe inventory : All components are listed or exempted. Industrial emissions : Listed (integrated pollution : Listed prevention and control) - Air : Ail components are listed or exempted. |
| Ozone depleting substances (1005/2009/EU) |
| Not listed. |
| Prior Informed Consent (PIC) (649/2012/EU) Not listed. |
| Seveso Directive |
| This product is not controlled under the Seveso Directive. |
| International regulations |
| Chemical Weapon Convention List Schedules I, II & III Chemicals |
| Not listed. |
| Montreal Protocol (Annexes A, B, C, E) Not listed. |
| Stockholm Convention on Persistent Organic Pollutants Not listed. |
| Rotterdam Convention on Prior Informed Consent (PIC) Not listed. |
| UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. |

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SECTION 15: Regulatory information

| 15.2 Chemical safety | : | This product contains substances for which Chemical Safety Assessments are still |
|--------------------------|---|--|
| assessment | | required. |
| 15.3 Registration status | : | Mixture. Information concerning the substance : Contact local supplier or distributor. |

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative |
|---|--|
| Key literature references and sources for data | Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); Regulation for the transport of dangerous materials on the Rhine (ADN); Occupational exposure limits; International regulations |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---------------------|--------------------|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |

Full text of abbreviated H statements

| H319 | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. |
|------|--|
| | |

Full text of classifications [CLP/GHS]

| ✓ye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 |
|--|---|
| Training advice | : Ensure operatives are trained to minimise exposures. Training staff on good practice. |
| Date of issue/ Date of revision | : 24/01/2018 |
| Date of previous issue | : 22/12/2010 |
| Version | : 2 |
| Notice to reader | |

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.