

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 27-May-2010 Revision Date 09-Feb-2024 Revision Number 9

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Nessler's solution

Cat No. : J/5500/PB08, J/5500/15, J/5500/08, J/5500/PB15

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

Recommended Use Laboratory chemicals. Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

UK entity/business name

Fisher Scientific UK

Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name Thermo Fisher Scientific Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

Tel: 01509 231166

Chemtrec US: (800) 424-9300 Chemtrec EU: 001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Substances/mixtures corrosive to metal Category 1 (H290)

Health hazards

Acute oral toxicity Category 3 (H301)

FSUJ5500

Nessler's solution Revision Date 09-Feb-2024

Acute dermal toxicity

Acute Inhalation Toxicity - Vapors

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity - (repeated exposure)

Category 2 (H310)

Category 4 (H332)

Category 1 A (H314)

Category 1 (H318)

Category 2 (H373)

Environmental hazards

Chronic aquatic toxicity Category 2 (H411)

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

H290 - May be corrosive to metals

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H332 - Harmful if inhaled

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|-------------------------------|-----------|-------------------|----------|---|
| Sodium hydroxide | 1310-73-2 | 215-185-5 | 10 - 15 | Met. Corr. 1 (H290) Skin Corr. 1A (H314) Eye Dam. 1 (H318) |
| Mercury (II) potassium iodide | 7783-33-7 | EEC No. 231-990-4 | 1-5 | Acute Tox. 2 (H300) Acute Tox. 1 (H310) |

Nessler's solution Revision Date 09-Feb-2024

| | | | | Acute Tox. 2 (H330) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
|--------------------|-----------|-----------|-------|---|
| Water | 7732-18-5 | 231-791-2 | > 80 | - |
| Potassium chloride | 7447-40-7 | 231-211-8 | 0.5-1 | - |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|-------------------------------|--|----------|-----------------|
| Sodium hydroxide | Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Met. Corr. 1 :: C ≥ 2% Eye Irrit. 2 :: 0.5%<=C<2% Skin Irrit. 2 :: 0.5%<=C<2% | • | • |
| Mercury (II) potassium iodide | STOT RE 2 (H373) :: C>=0.1% | - | - |

Note

Note 1: The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture

| Components Reach Registration Number | | |
|--------------------------------------|------------------|--|
| Sodium hydroxide | 01-2119457892-27 | |
| Potassium chloride | 01-2119539416-36 | |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required. Take off contaminated clothing and shoes immediately.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Immediate medical attention is

required.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If

not breathing, give artificial respiration. Call a physician or poison control center

immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

Notes to Physician Treat symptomatically.

Nessler's solution Revision Date 09-Feb-2024

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products

Potassium oxides, Hydrogen iodide, Mercury oxide, Toxic fumes, Burning produces obnoxious and toxic fumes.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Wash hands before breaks and immediately after handling the product. Do not taste or swallow.

Hygiene Measures

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from acids. Keep in properly

Nessler's solution Revision Date 09-Feb-2024

labeled containers.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Class 6.1B

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE** - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|-------------------------------|-------------------------------------|----------------|----------------------------------|
| Sodium hydroxide | 2 mg/m³ STEL | | STEL: 2 mg/m ³ 15 min |
| Mercury (II) potassium iodide | STEL: 0.06 mg/m ³ 15 min | | |
| | TWA: 0.02 mg/m ³ 8 hr | | |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|---------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Potassium chloride | | DNEL = 910mg/kg | | DNEL = 303mg/kg |
| 7447-40-7 (0.5-1) | | bw/day | | bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Sodium hydroxide 1310-73-2 (10 - 15) | | | DNEL = 1mg/m ³ | |
| Potassium chloride 7447-40-7 (0.5-1) | | DNEL = 5320mg/m ³ | | DNEL = 1064mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|---------------------|----------------|-------------|--------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | |
| Potassium chloride | PNEC = 0.1mg/L | | PNEC = 1mg/L | PNEC = 10mg/L | |
| 7447-40-7 (0.5-1) | _ | | | | |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|---------------------|----------------|-----------------------|---------------------------|------------|-----|
| Potassium chloride | PNEC = 0.1mg/L | | | | |
| 7447-40-7 (0.5-1) | | | | | |

8.2. Exposure controls

Nessler's solution Revision Date 09-Feb-2024

Engineering Measures

Ensure that evewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-------------------|-----------------|-------------|--|
| Neoprene | > 480 minutes | 0.45 mm | Level 6 | As tested under EN374-3 Determination of |
| Butyl rubber | > 480 minutes | 0.35 mm | EN 374 | Resistance to Permeation by Chemicals |
| Nitrile rubber | > 480 minutes | 0.35 mm | | · |
| Viton (R) | > 480 minutes | 0.30 mm | | |

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

Liquid

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance Yellow Odor Odorless

Odor Threshold No data available Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** No information available

Flammability (liquid) No data available Not applicable Flammability (solid,gas)

Explosion Limits No data available

Flash Point Not applicable Method - No information available

Autoignition Temperature No data available No data available **Decomposition Temperature** рΗ > 13

Viscosity No data available

Nessler's solution Revision Date 09-Feb-2024

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure No information available

Density / Specific Gravity 1.1 - 1.3

Bulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Excess heat. Protect from light. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Strong acids. Metals.

10.6. Hazardous decomposition products

Potassium oxides. Hydrogen iodide. Mercury oxide. Toxic fumes. Burning produces

obnoxious and toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

Oral Category 3
Dermal Category 2
Inhalation Category 4

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------|-------------------------|---------------------|-----------------|
| Sodium hydroxide | 140 - 340 mg/kg (Rat) | 1350 mg/kg (Rabbit) | = |
| · | | , | |
| Water | - | - | - |
| Potassium chloride | LD50 = 2600 mg/kg (Rat) | - | - |
| | | | |

(b) skin corrosion/irritation; Category 1 A

(c) serious eye damage/irritation; Category 1

Nessler's solution Revision Date 09-Feb-2024

(d) respiratory or skin sensitization;

No data available Respiratory No data available Skin

No data available (e) germ cell mutagenicity;

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

No data available (g) reproductive toxicity;

No data available (h) STOT-single exposure;

(i) STOT-repeated exposure; Category 2

Kidney, Central nervous system (CNS). **Target Organs**

(j) aspiration hazard; No data available

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation.

11.2. Information on other hazards

Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow

material to contaminate ground water system.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|--------------------|--|--------------------|---------------------|
| Sodium hydroxide | LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss) | | |
| Potassium chloride | Lepomis macrochirus: LC50: 1060 mg/L /96h Pimephales promelas: LC50: 750 - 1020 mg/L /96h | EC50: 825 mg/L/48h | EC50: 2500 mg/L/72h |

12.2. Persistence and degradability Product contains heavy metals. Discharge into the environment must be avoided. Special

pre-treatment is necessary

Persistence May persist, based on information available.

Degradation in sewage

treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

12.3. Bioaccumulative potential May have some potential to bioaccumulate

Revision Date 09-Feb-2024 **Nessler's solution**

The product is water soluble, and may spread in water systems . Will likely be mobile in the 12.4. Mobility in soil

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives

on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Clean container with water. Dispose of this container to hazardous or special waste

collection point.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Solutions with high pH-value must be neutralized

before discharge. Do not let this chemical enter the environment.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

UN2922 14.1. UN number

Corrosive liquid, toxic, n.o.s. 14.2. UN proper shipping name

Technical Shipping Name Contains Sodium hydroxide, Mercury (II) potassium iodide

14.3. Transport hazard class(es) 8 **Subsidiary Hazard Class**

14.4. Packing group

6.1 Π

6.1

ADR

14.1. UN number UN2922

14.2. UN proper shipping name Corrosive liquid, toxic, n.o.s.

Technical Shipping Name Contains Sodium hydroxide, Mercury (II) potassium iodide

14.3. Transport hazard class(es) **Subsidiary Hazard Class** Π

14.4. Packing group

IATA

Nessler's solution Revision Date 09-Feb-2024

14.1. UN number UN2922

14.2. UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S.*

Technical Shipping Name Contains Sodium hydroxide, Mercury (II) potassium iodide

14.3. Transport hazard class(es)8Subsidiary Hazard Class6.114.4. Packing groupII

14.5. Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|-------------------------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Sodium hydroxide | 1310-73-2 | 215-185-5 | - | - | Х | X | KE-31487 | X | X |
| Mercury (II) potassium iodide | 7783-33-7 | 231-990-4 | - | - | Х | Х | KE-12197 | - | - |
| Water | 7732-18-5 | 231-791-2 | - | - | Х | X | KE-35400 | X | - |
| Potassium chloride | 7447-40-7 | 231-211-8 | - | - | Х | Х | KE-29086 | Х | X |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-------------------------------|-----------|------|---|-----|------|------|-------|-------|
| Cadima budanida | 4040.70.0 | | | V | | | | |
| Sodium hydroxide | 1310-73-2 | ^ | ACTIVE | ^ | - | | | |
| Mercury (II) potassium iodide | 7783-33-7 | X | ACTIVE | X | - | X | X | X |
| Water | 7732-18-5 | X | ACTIVE | X | - | X | X | X |
| Potassium chloride | 7447-40-7 | X | ACTIVE | Х | - | X | X | X |

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-------------------------------|-----------|---|---|---|
| Sodium hydroxide | 1310-73-2 | - | Use restricted. See item 75. (see link for restriction details) | - |
| Mercury (II) potassium iodide | 7783-33-7 | - | Use restricted. See item 18. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) | - |
| Water | 7732-18-5 | - | - | - |
| Potassium chloride | 7447-40-7 | - | - | - |

REACH links

Nessler's solution Revision Date 09-Feb-2024

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - | Seveso III Directive (2012/18/EC) - |
|------------------------|-----------|--|---|
| | | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report |
| | | Notification | Requirements |
| Sodium hydroxide | 1310-73-2 | Not applicable | Not applicable |
| Mercury (II) potassium | 7783-33-7 | Not applicable | Not applicable |
| iodide | | | |
| Water | 7732-18-5 | Not applicable | Not applicable |
| Potassium chloride | 7447-40-7 | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

| Component | ANNEX I - PART 1 List of chemicals subject to export notification procedure (referred to in Article 8) | ANNEX I - PART 2 List of chemicals qualifying for PIC notification (referred to in Article 11) | ANNEX I - PART 3 List of chemicals subject to the PIC procedure (referred to in Articles 13 and 14) |
|--|---|--|---|
| Mercury (II) potassium iodide 7783-33-7 (1-5) | p(1) — pesticide in the group of plant protection products b — ban (for the category or categories concerned) p(2) — other pesticide including biocides b — ban (for the category or categories concerned) Ref — Please refer to PIC circular at www.pic.int/ | - | p — pesticides |

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32012R0649&qid=1604065742303.

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification Water endangering class = 3 (self classification)

| Component Germany - Water Classification (AwSV) | | Germany - TA-Luft Class |
|---|------|-------------------------|
| Sodium hydroxide | WGK1 | |
| Mercury (II) potassium iodide | WGK3 | |
| Potassium chloride | WGK1 | |

| Component France - INRS (Tables of occupational diseases) | |
|---|--|
| Potassium chloride | Tableaux des maladies professionnelles (TMP) - RG 67 |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|------------------|--|---|--|
| Sodium hydroxide | Prohibited and Restricted | | |

Nessler's solution Revision Date 09-Feb-2024

| 1310-73-2 (10 - 15) | Substances | |
|-------------------------------|---------------------------|---|
| Mercury (II) potassium iodide | Prohibited and Restricted | Annex I - pesticide |
| 7783-33-7 (1-5) | Substances | Annex I - industrial chemical Annex II - pesticide |

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H400 - Very toxic to aquatic life

Legend

CAS - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b)

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration PBT - Persistent. Bioaccumulative. Toxic

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate

ICAO/IATA - International Civil Aviation Organization/International Air

Predicted No Effect Concentration (PNEC)

EC50 - Effective Concentration 50%

VOC - (Volatile Organic Compound)

LD50 - Lethal Dose 50%

Transport Association

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

Chemical incident response training.

27-May-2010 **Creation Date Revision Date** 09-Feb-2024 **Revision Summary** Not applicable.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

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Disclaimer

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End of Safety Data Sheet