

Safety Data Sheet

Pyrosol ES

Date of Issue : 14.04.2025 Replaces : 23.06.2020 Valid no longer than : 13.04.2030

Conforms to regulation (ED) 1907/2006 (REACH), annex II as amended by Regulation (EU) 453/2010

1. Chemical Product and Company Identification

1.1 Product Identifier

Trade Name: **Pyrosol ES**

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

Industrial uses: Well Cleaning and Stimulation
Professional uses: Well Cleaning and Stimulation
Uses advised against: Product is not for consumer use

1.3 Details of the supplier of the safety data sheet

Well Engineering & Technology Sdn Bhd

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2. Hazards Identification

2.1 Classification of substance or mixture

Product Definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irritation (Category 2), H315

Eye Irritation (Category 2), H319

Specific Target Organ Toxicity – single exposure (Category 3), H335

This product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label Elements

Hazard Pictogram:



Signal Word: Danger

Supplementary label:

Hazard Statement

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statement:

Prevention:

P261 Avoid breathing vapour/ spray

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.

Disposal:

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations

3. Composition and Information on Ingredients

Product / Ingredient Name	Concentration %	Regulation (ED) No. 1272/2008 [CLP]
Dipotassiumdihydrogen ethylenediaminetetra acetate dehydrate CAS-No. : 25102-12-9 EC-No. : 217-895-0	20-40%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H315,
Aqueous Alkyl Betaine Surfactant Blend 1.CAS-No.: 2601-33-4 1.EC-No. : 220-006-9 2.CAS-No. : 683-10-3 2.EC-No. : 211-669-5	0.1-2.5%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

Refer to section 16 for additional wording

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section

4. First Aid Measures

4.1 Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

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 15 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 necessary, call a poison center or physician. 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

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention.

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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. 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 Aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

4.4 Specific Treatments: No data available

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing agents: Recommended: Water Spray, alcohol resistant foam, CO₂, powders,.

For safety reasons unsuitable extinguishing agents : Not known

5.2 Special hazards arising from the substance or mixture

Carbon oxides , Nitrogen Oxides (NO_x), Potassium Oxides

5.3 Advice for firefighters

Protective equipment - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus if necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated Place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure Controls / Personal Protection

8.1 Control parameters

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 Not Known

PNECs Not Known

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Do not let product enter drains.

9. Physical & Chemical Properties

9.1 *Information on basic physical and chemical properties*

General Information:

Appearance:

Form:	Liquid
Colour:	Colourless to Pale Yellow
Odour:	Not Available
Odour threshold:	Not Available
pH value:	4.5 – 5.5
Change in condition:	
Melting point / Melting range:	<0°C
Initial Boiling point / Boiling range:	>100C °
Flash point:	Not Applicable
Evaporation Rate:	Not Available
Flammability (solid, gaseous)	Not Applicable
Critical values for explosion:	
Lower:	Not Applicable
Upper:	Not Applicable
Vapour pressure at 20C °	Not Available
Vapour density:	Not Available
Relative density:	1.13 - 1.15 g/ml
Solubility in /Miscibility with Water:	Fully Miscible with Water
Partition coefficient (n-octanol/water):	Not Available
Auto Ignition temperature:	Not Applicable
Decomposition Temperature:	Not Applicable
Viscosity:	Not Applicable
Explosive Properties:	Not Available

Oxidising Properties:

Not Available

9.2 Other information

No additional information

10. Stability & Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, strong bases, strong acids.

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire - see Section 5

11. Toxicological Information

11.1 Information on toxicological effects

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Acute Toxicity No data available

Irritation/Corrosion No data available

Respiratory No data available

Sensitisation No data available

Mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity No data available

Teratogenicity No data available

Specific target organ toxicity (single exposure):

Product / Ingredient Name	Category	Route of Exposure	Target Organs
Dipotassium dihydrogen ethylenediaminetetra acetate dehydrate CAS-No. : 25102-12-9 EC-No. : 217-895-0	Category 3	Inhalation	Respiratory irritation,
Aqueous Alkyl Betaine Surfactant Blend	Category 3	Inhalation	Respiratory irritation,

Specific target organ toxicity (repeated exposure) Not available

Aspiration Hazard Not available

12. Ecological Information

12.1 Toxicity

There is no data available on the mixture itself Do not allow to enter drains or watercourses

Product / Ingredient Name	Result	Species	Exposure
Aqueous Alkyl Betaine Surfactant Blend	LC50 21.9 mg/L EC50 2.5 mg/l	Fish – Brachydabio rerio Algae	96 hours 72 hours

Conclusion / Summary - Not available

12.2 Persistence and degradability Conclusion/Summary - not available

12.3 Bioaccumulative potential Conclusion/Summary not available

12.4 Mobility in soil Data not available

12.5 Results of PBT and VpVb assessment Data not available

12.6 Other adverse effect No known significant effects or critical hazards

13. Disposal Considerations

13.1 Waste treatment method

Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product

European Waste catalogue (EWC)

11 02 07* other wastes containing Hazardous substances

14. Transport Information

	ADR / RID	IMDG	IATA
14.1 UN Number	NOT REGULATED		
14.2 Proper Shipping Name			
14.3 Transport Class(es)			
14.4 Packing Group			
14.5 Environmental Hazards			
14.6 Tunnel Restriction Code			

Marine pollutant: No

The Harmonized System Code (HS Code): 38249945

15. Regulatory Information

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

The information contained in this safety data sheet does not constitute the user's own assessment of the workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

HS Code : 38 24 99 45

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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 (ED) 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

Procedure used to derive the classification according to regulation (EC) 1271/2008 [CKO/GHS]

Classification	Justification
Skin Irrit 2, H315	-
Eye Irrit 2, H319	-
STOT SE 3, H335	-

Full text of abbreviated H Statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Full text of classifications [CLP/GHS]

Skin Irrit 2, H315 SKIN CORROSION/ IRRITATION – Category 2

Eye Irrit. 2, H319 EYE CORROSION/IRRITATION - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Note:

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality.

The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.