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MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - Europe

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

1.1 Product identifier

Product name : **SODIC ATAGOL**

Product code: **01191301-25**

Hazardous ingredients: Contains chlorocresol, sodium hydroxide

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

Suitable uses : preservative

1.3 Details of the supplier of the safety data sheet

Distributor: **C.T.S. S.r.l. – Via Piave, 20/22 – 36077 ALTAVILLA VICENTINA (VI) – ITALY**
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Classification: Acute Tox. 4, H302
Acute Tox. 4, H312
Skin Corr. 1A, H314
Skin Sens. 1, H317

Ingredients of unknown toxicity: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 18%

Classification according to Directive 1999/45/EC [DPD]:

Classification: Xn; R21/22
C; R35
R43

Human health hazards : Harmful in contact with skin and if swallowed. Causes severe burns. May cause sensitisation by skin contact.

2.2 Label elements

Hazard pictograms :



Signal word: Danger
Contains: chlorocresol, sodium hydroxide

Hazard statements: H302 + H312 - Harmful if swallowed or in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.



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Additional warning phrases: Not applicable.

Precautionary statements

Prevention: Wear protective gloves/clothing and eye/face protection. Do not breathe dust or mist. Do not eat, drink or smoke when using this product.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF IN EYES: Immediately call a POISON CENTER or physician.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Other hazards which do not result in classification:

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Fine dust clouds may form explosive mixtures with air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Product/ingredient name | Identifiers | % | Classification | | Type |
|-------------------------|--|---------|---|---|------|
| | | | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | |
| 4-chloro-3-methylphenol | EC: 200-431-6 CAS: 59-50-7 Index: 604-014-00-3 | 60 - 70 | Xn; R21/22 Xi; R41 R43 N; R50 | Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 | [1] |
| sodium hydroxide | REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6 | 15 - 20 | C; R35 See Section 16 for the full text of the R-phrases declared above. | Met. Corr. 1, H290 Skin Corr. 1A, H314 See Section 16 for the full text of the H statements declared above. | [1] |

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

Type

[1] 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



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|----------------------|--|
| Inhalation: | Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. 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. 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. |
| Ingestion: | Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. 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. Chemical burns must be treated promptly by a physician. 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. |
| Skin contact: | Wash skin immediately with plenty of water and soap. Get medical attention immediately. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact: | Get medical attention immediately. 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. Chemical burns must be treated promptly by a physician. |

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Basic aid, decontamination, symptomatic treatment.

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

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 substance or mixture: Fine dust clouds may form explosive mixtures with air.

Hazardous combustion products: Decomposition products may include the following materials:
carbon oxides
halogenated compounds
metal oxide/oxides



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5.3 Advice for firefighters

Special precautions 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. 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. Put on appropriate personal protective equipment (see Section 8).

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. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill:

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use sparkproof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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:

Put on appropriate personal protective equipment (see Section 8).

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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. 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. Empty containers retain product residue and can be hazardous.



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7.2 Conditions for safe storage, including any incompatibilities:

Store between the following temperatures: 5 to 40°C (41 to 104°F). 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. Store locked up. 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.

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

Remarks: Avoid the formation of dust, if necessary siphoning the product off locally. Vent waste air only via suitable separators or scrubbers. Take precautionary measures against electrostatic discharges.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit values: Not available.

| Derived effect levels | | | | | | |
|------------------------------|-------------|-------------------------|---------------------|-------------------|----------------|----------------|
| Ingredient name | Type | Exposure | Value | Population | Effects | Remarks |
| Sodium hydroxide | DNEL | Long term Inhalation | 1 mg/m ³ | Consumers | - | - |
| | | Long term Inhalation | 1 mg/m ³ | Workers | - | - |
| Conclusion/Summary | | : Not available. | | | | |

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.

8.2 Exposure controls

Risks management measures

Occupational exposure controls

Technical measures:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.



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Personal protection measures

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.

Recommended: Full mask with type ABEK filter.

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. After contamination with product change the gloves immediately and dispose of them according to relevant national and local Regulations Recommended: (< 1 hour) Butyl rubber - IIR, Nitrile rubber - NBR, Polyvinyl chloride - PVC

Eye 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 operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: safety glasses with side-shields.

Skin protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: Wear protective clothing.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

Technical measures:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information

Appearance

Physical state: Solid. [flakes]

Colour: White to yellowish.

Odour: Faint odour.

Important health, safety and environmental information

pH: 10,5 to 11,5 [Conc. (% w/w): 0,1%]

Melting point: 94 °C (201,2 °F)

Vapour pressure: 0.00016 hPa (20 °C)
0.000021 hPa (60 °C)
0.000061 hPa (100 °C)

Density: 1,36 kg/L (20 °C)

Bulk density: 700 kg/m³

Solubility: 580 g/l (water)

Ignition temperature: >250 °C



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Auto-ignition temperature: 170°C (338°F)
Decomposition temperature: Not available

9.2 Other information

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.

10.4 Condition to avoid: In the case of dusty organic products the possibility of a dust explosion should always be considered.

10.5 Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials.

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential acute health effects

Inhalation:

May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Ingestion:

Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

Skin contact

Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.

Eye contact

Causes serious eye damage.

Acute toxicity

| Product/ingredient name | result | Species | Dose | Exposure | Test |
|-------------------------|--|------------|------------------------|----------|------|
| SODIC ATAGOL | LD50 | Rat-male | 1610 mg/kg | - | - |
| | Oral LD50 Oral | Rat-female | 1360 mg/kg | - | - |
| 4-chloro-3-methylphenol | LD50 Dermal | Rat | >2000 mg/kg | - | - |
| SODIC ATAGOL | LC50 Inhalation Dusts And mists | Rat | >583 mg/m ³ | 4 hours | - |

Conclusion/Summary: * Highest producible concentration. Dosage caused no mortality

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| Route | ATE value (Acute Toxicity Estimates) |
|--------|--------------------------------------|
| Dermal | 1443,2 mg/kg |

Irritation/Corrosion**Skin:** corrosive: tested on rabbits.**Eyes:** Causes serious eye damage.: tested on rabbit eyes.**Sensitiser**

| Product/ingredient name | Route of exposure | Species | Result | Test description |
|-------------------------|-------------------|------------|-------------|------------------|
| 4-chloro-3-methylphenol | skin | Guinea pig | Sensitising | - |

Skin: Sensitising**Chronic toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|----------------------|------------|-------------------|----------|
| 4-chloro-3-methylphenol | Chronic NOEL Oral | Rat-Male | 103 mg/kg per day | - |
| | Chronic NOEL Oral | Rat-Female | 134 mg/kg | - |

Chronic effects:

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Remarks: 4-chloro-3-methylphenol, sodium salt: Ames-test: negative.**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

| Product/ingredient name | Test | Result | Species | Exposure |
|-------------------------|------|----------------------|---------------------------------------|----------|
| SODIC ATAGOL | - | Acute EC50 3.9 mg/l | Daphnia - Daphnia Magna | 48 hours |
| | - | Acute IC50 11.1 mg/l | Algae - Desmodesmus subspicatus | 72 hours |
| | - | Acute LC50 5.7 mg/l | Fish - Danio rerio | 48 hours |

Conclusion/Summary: Not available**12.2 Persistence and degradability**

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| chlorocresol | - | - | Readily |

| Product/ingredient name | Rate of Period (days) degradation/ elimination (%) | Period (days) | Test |
|-------------------------|--|---------------|---|
| 4-chloro-3-methylphenol | >90% | 28 days | OECD 301C Ready Biodegradability - Modified MITI Test (I) |



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Conclusion/Summary: Not available

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 4-chloro-3-methylphenol | 3 | 13 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}): not available

Mobility: not available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

Other adverse effects: not available

AOX: The product contains organically bound halogens and can contribute to the AOX value in waste water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Methods of disposal:

Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used.

It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

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.



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SECTION 14: TRANSPORT INFORMATION

| | ADR/RID | IMDG | IATA |
|--|----------------------------------|------------------------|---|
| 14.1 UN NUMBER | UN 1823 | UN 1823 | UN 1823 |
| 14.2 PROPER SHIPPING NAME | SODIUM HYDROXIDE SOLID | SODIUM HYDROXIDE SOLID | SODIUM HYDROXIDE SOLID |
| 14.3 TRANSPORT HAZARD CLASS/MARKS | | | |
| 14.4 PACKING GROUP | II | II | II |
| 14.5 ENVIRONMENTAL HAZARDS | NO | NO | NO |
| 14.6 SPECIAL PRECAUTIONS FOR USER/ADDITIONAL INFORMATION | Hazard identification number: 80 | EmS:F-A,S-B | Passenger aircraft: P.I. 859; 15 kg ----- Cargo aircraft: P.I. 863; 50 KG |

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

Hazard notes:

Corrosive.

Keep away from cargo susceptible to odour.

Keep separated from foodstuffs.

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.

Other EU regulations

Seveso III Directive

This product is not controlled under the Seveso III Directive.

15.2 Chemical Safety Assessment:

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

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



C.T.S. S.R.L.

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

| Classification | Justification |
|---|---|
| Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Skin Sens. 1, H317 | On basis of test data Calculation method Calculation method Calculation method |

Full text of abbreviated H statements:

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H302: ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312: ACUTE TOXICITY (dermal) - Category 4
Aquatic Acute 1, H400: ACUTE AQUATIC HAZARD - Category 1
Eye Dam. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Met. Corr. 1, H290: CORROSIVE TO METALS - Category 1
Skin Corr. 1A, H314: SKIN CORROSION/IRRITATION – Category 1A
Skin Sens. 1, H317: SKIN SENSITIZATION - Category 1

Full text of R-phrases referred to in sections 2 and 3:

R21/22- Harmful in contact with skin and if swallowed.
R35- Causes severe burns.
R41- Risk of serious damage to eyes.
R43- May cause sensitisation by skin contact.
R50- Very toxic to aquatic organisms.

History:

Date of issue: 27/05/2015
Date of previous issue: 15/07/2013
Version: 5

Indicates information that has changed from previously issued version.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.