BIRLASULF – SM

Material Safety data sheet
According to EC Directive 91/155/EEC

1. Identification Of The Substance / Preparation And Of The Company / Undertaking
Identification of the product
Product name: Sodium Disulphite (Sodium Metabisulphite) GR ACS

Manufacturer / Supplier Identification
Company: Aditya Birla Chemicals (Thailand) Ltd. (Sulphites Division)
888/163, 15th Floor, Mahatun Plaza Bldg., Ploenchit Road, Lumphini, Pathumwan, Bangkok 10330, Thailand
Tel: (662) 253-6745-54, 650-7774, 252-9471

2. Composition / Information on Ingredients
Synonyms
Sodium Metabisulphite: Sodium Pyrosulphite

CAS-No.: 7681-57-4   EC-Index-No.: -
Molar mass: 190.10   EINECS-No.: 231-673-0
Molecular formula: \( \text{Na}_2\text{S}_2\text{O}_5 \)

3. Hazards Identification
Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to respiratory system. Risk of serious damage to eyes.

4. First Aid Measures
After inhalation: fresh air.
After skin contact: wash off with plenty of water. Remove contaminated clothing.
After eye contact: rinse out with plenty of water with the eyelid held wide open.
Summon eye specialist.
After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.
5. Fire-Fighting Measures
Suitable extinguishing media:
In adaption to materials stored in the immediate neighborhood.

Special risks:
Development of hazardous combustion gases or vaporous possible in the event of fire.
The following may develop in event of fire: sulfur oxides

Special protective equipment for fire fighting:
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information:
Non-combustible.

6. Accidental Release Measures
Person-related precautionary measures:
Avoid generation of dusts: do not inhale dusts. Avoid substance contact.

Procedures for cleaning / absorption:
Take up dry. Forward for disposal. Clean up affected area.

7. Handling And Storage
Handling:
No further requirements.

Storage:

8. Exposure Controls / Personal Protection
Personal protective
Equipment:
Respiratory protection: required when dusts are generated.
Eye protection: required
Hand protection: required
Industrial hygiene: Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance.
9. Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH value at 50 g / water (20°C)</td>
<td>4.0 – 5.0</td>
</tr>
<tr>
<td>Melting temperature</td>
<td>~ 150°C</td>
</tr>
<tr>
<td>Boiling temperature</td>
<td>not available</td>
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<tr>
<td>Ignition temperature</td>
<td>not available</td>
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<tr>
<td>Flash point</td>
<td>not available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>lower</td>
</tr>
<tr>
<td>upper</td>
<td>not available</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>1.46 g / cm³</td>
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<tr>
<td>Solubility in water (20°C)</td>
<td>640 g / l</td>
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<tr>
<td>Thermal decomposition</td>
<td>&gt; 150°C</td>
</tr>
<tr>
<td>log P(Oct)</td>
<td>-3.7</td>
</tr>
</tbody>
</table>

10. Stability And Reactivity

Conditions to be avoided
Strong heating

Substances to be avoided
Acids, oxidizing agent

Hazardous decomposition products
In the event of fire: sulfur dioxide

11. Toxicological Information

Acute toxicity
LD₅₀ (oral, rat): 1540 mg / kg

Subacute to chronic toxicity
Eye irritation test (rabbit): irritation effect.
Skin irritation test (rabbit): No irritation.
Further toxicological information
After inhalation: irritations of the mucous membranes, coughing, and dyspnoea.
After skin contact: irritant effect
After eye contact: irritant effect
After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Further data
Further hazardous properties cannot be excluded.
The product should be handled with the care usual when dealing with chemicals.

12. Ecological Information
Biological degradation:
Slightly eliminable (DOC reduction < 20%).

Behavior in environmental compartments:
Distribution: log P (oct): -3.7;

Ecotoxic effects:
Biological effects: Toxic for aquatic organisms
When introduced properly, no impairments in the function of adapted biological waste-water-treatment plants are to be expected.
Fish toxicity: S. gairdnerii LC₅₀: 150 – 220 mg/l / 1/ 96 h;
Bacterial toxicity: Ps. pudita EC₅₀: 56 mg/l / 1/ 16 h;
Daphnia toxicity: Daphnia magna EC₅₀: 89 mg/l / 1/ 24 h;

Further ecologic data:
COD: 165 mg/g;
ThOD: 154 mg/g;

Do not allow to enter waters, waste water, or soil!

13. Disposal Considerations
Product:
There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies, who will advise you on how to dispose off special waste.
Packaging:
Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport Information
Not subject to transport regulations.

15. Regulatory Information
Labeling according to EC Directives
Symbol: Xn
R-phrases: R 22-31-37-41
S-phrases: S 26-39
EC-No.: 231-673-0
Harmful immediately and show this container or label.
Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to respiratory system. Risk of serious damage to eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye / face protection.
EC Label

16. Other Information
Reason for alteration
General update.