

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 1/7

BAKING SOLUTION

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Baking Solution
Catalogue Number: 052588 – Package with 5 liters

Recommended use for the substance or mixture: Graphic arts product for industrial use only.

Manufacturer: IBF INDÚSTRIA BRASILEIRA DE FILMES
Address : Rua Lauro Muller, 116 10º andar CEP 22290 900 Rio de Janeiro Brasil
Tel.: 55 21 2103-1000

SDS prepared by : IBF INDÚSTRIA BRASILEIRA DE FILMES
Rua Lauro Muller, 116 10º andar CEP 22290 900 Rio de Janeiro Brasil
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CHEMTREC PHONE: 1 800 424 9300
PRO QUIMICA ABIQUIM PHONE: 0800 110 8270

2. HAZARDS IDENTIFICATION

Classification system based on ABNT NBR 14725-2.
Hazard information are based on information from the ingredients.

2.1 Classification of the mixture:

Serious eye damage/eye irritation - Category 1, H318;
Aquatic acute toxicity - Category 3
Chronic aquatic toxicity - Category 3
Contains: Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

2.2 Element GHS label:



Signal Word: Danger

Danger phrase:

H318 – Causes serious eye damage.
H402 - Harmful to aquatic organisms
H412 - Harmful to aquatic organisms, with long lasting effects

Precautionary phrases: prevention.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P273 - Avoid release to the environment.
Precautionary phrases: emergency response.

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 2/7

BAKING SOLUTION

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. If you wear contact lenses, remove them if easy. Keep rinsing.

P310 - Contact a TOXICOLOGICAL INFORMATION CENTER or physician.

Precautionary phrases: disposition.

P501 – Dispose of content/container in a location licensed by the environmental agency.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Mixture related information:

This product is a mixture: Aqueous solution for protection against graphics in the process of baking lithographic printing plates.

Chemical nature: Water-based solution.

3.2 Hazardous ingredients:

| Weight% | Component (CAS Registry No.) |
|---------|---|
| 1 - 5 | Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9) |

Note: Exact percentage (concentration) of composition has been withheld as a trade secret is required.

4. FIRST AID MEASURES

4.1 First aid measures:

General Information:

Inhalation: If inhaled, move person into fresh air. Consult a physician immediately.

Skin contact: Wash immediately with soap and plenty of water. Consult a physician if symptoms occur. Remove all contaminated clothing.

Eye contact: Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

Ingestion: Rinse mouth. Do not induce vomiting, seek medical attention. Never give anything by mouth to an unconscious person. After first aid urgently forward to the doctor.

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

Alkaline product. Causes burns.

Can cause permanent eye damage.

4.3 Notes to physician:

Direct treatment according to the symptoms and the clinical condition of the patient. Seek medical attention immediately.

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 3/7

BAKING SOLUTION

Most important symptoms and effects, both acute and delayed: Serious Eye Damage:
Signs/symptoms may include localized redness, swelling, lachrymation, itching, intense pain, ulceration, tissue destruction and loss of vision.

Indication of any immediate medical attention and special treatment needed: Treatment: No information available.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media: Product is not flammable

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

5.2 Specific hazards of the substance or mixture:

In case of combustion may generate carbon oxides, and sulfur oxides.

5.3 Protective measures for the fire-fighting team:

Wear self-contained breathing apparatus for fire fighting if necessary.

Water may be used to cool the sealed containers.

Unusual Fire & Explosion Hazards: None

6. MEASURES SPILL OR LEAK

6.1 Personal precautions, protective equipment and emergency procedures.

6.1.1 Advice for non-emergency: Keep people away. Isolate the area. Avoid contact with the material.

6.2 Environmental precautions.

Prevent leakage or spillage if safe. Do not allow product to enter drains.

Contain spilled material with earth dikes or sand.

6.3 Methods and materials for containment and cleaning.

Collect the debris with absorbent materials such as vermiculite. Transfer the spilled materials (solid and liquid) into suitable containers and deliver to an authorized manager for waste disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling.

Use in well ventilated area. Prevent contact with eyes, skin and clothing through proper protection. If accidental contact, the site should be washed immediately.

Emergency showers and eyewash should be available in appropriate locations.

Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

Use goggles and gloves.

7.2 Conditions of safe storage, including any incompatibilities.

Store in cool, dry and well-ventilated area (5-30C). Keep containers tightly closed when not in use.

Incompatibility: Avoid contact with oxidizing materials.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters:

The control limits are for substances.

Exposure Limits

Benzene, 1,1'-oxybis-, tetrapropylene derivs, sulfonated, sodium salts

ACGIH TLV

no data

OSHA PEL

no data

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 4/7

BAKING SOLUTION

8.2 Engineering measures:

Recommended Decontamination Facilities: Eye wash station, emergency shower and washing facilities. Ensure there is adequate ventilation.

8.3 Personal protection measures:

General Information:

Eye / Face Protection: It is recommended industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields or goggles broad view.

Skin Protection: It is recommended industrial hygiene practice to minimize skin contact. Use gloves resistant to chemicals PVC or Neoprene.

Respiratory protection: It must be kept a good local ventilation. It is recommended practice to use mask with filter element when the adverse effects such as respiratory irritation or discomfort have been experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless.

Odor: Slight odor

pH (as is) ($\pm 0,75$) : 8,75

Melting / Freezing Point: Not available.

Initial boiling point and boiling range temperature: Not available.

Flash Point: Not applicable.

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower limit / upper flammability or explosive limits: Not applicable.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative density ($\pm 0,002$) : 1,065 g/cm³ at 20 ° C

Solubility in Water: Easily soluble in water.

n-octanol/água Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

VOC: No VOC

10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction in normal use.

10.2 Stability

Chemically stable product at ambient conditions.

10.3 Possibility hazardous reactions

None known.

10.4 Conditions to be avoided

None known.

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 5/7

BAKING SOLUTION

10.5 Incompatible materials

None with common materials and contaminants which the material may come into contact.

10.6 Hazardous decomposition products

Carbon and Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

The information mix refers to the toxicological data of hazardous ingredients of the mixture based on information from manufacturers.

Effects of Exposure

Inhalation: Airborne dust/mist/vapor may be irritating.

Eyes: Causes serious eye damage.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: May cause irritation of the gastrointestinal tract if swallowed.

Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (CAS 119345-049):

11.1 Acute toxicity:

LD50, oral, rat -> 2,000 mg / kg. (test substance administered as a 47% aqueous solution, no deaths occurred)

11.2 Corrosion / skin irritation:

Dermal LD50 (Rabbit): > 1,000 mg/kg (50% active ingredient in water, no deaths occurred)

11.3 Serious eye damage / irritation:

Causes severe eye irritation.

11.4 Respiratory sensitization or skin:

No data available.

11.5 Germ cell mutagenicity:

No data available.

11.6 Carcinogenesis:

Carcinogenic rating (components present at 0.1% or more):

- International Agency for Research on Cancer (IARC): none
- American Conference of Governmental Industrial Hygienists (ACGIH): none
- National Toxicology Program (NTP): none
- Security Management and Occupational Health - OSHA: None

11.7 Reproductive toxicity:

No data available.

11.8/9 Organ toxicity - specific target – single & repeated exposure:

No data available.

11.10 Aspiration hazard:

No data available.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Ecotoxicity is expected from the components. Properties are estimated from the components.

Potential Toxicity:

Toxicity to fish (LC50): 10 - 100 mg/l estimated

Toxicity to daphnia (EC50): 10 - 100 mg/l estimated

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 6/7

BAKING SOLUTION

12.2 Persistence and degradability: Not readily biodegradable

12.3 Bio-accumulative potential:

Partition coefficient (Kow): no data available.

Bioconcentration factor (BCF): no data available.

12.4 Mobility in soil:

No data available.

12.5 Other adverse effects:

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

The discharge, treatment or disposal may be subject to local, state and national laws. Do not discharge into drains, soil or any water course. All disposal practices must comply with all local, municipal, state and federal laws and regulations. May require the approval of the licensing authority.

13.3 Contaminated packaging

Packaging that cannot be fully sanitized should receive the same treatment as that applied to the product. Recondition or dispose of empty containers in accordance with government regulations.

14. TRANSPORTATION INFORMATION

DOT: Not Regulated

TDG: Not regulated

ADR/RID: Not regulated

IMO/IMDG: Not regulated

ICAO/IATA: Not regulated

15. REGULATORY INFORMATION

15.1 Notification Status

| Regulatory List | Notification status |
|-----------------|---------------------|
| TSCA | All listed |
| DSL | All listed |
| NDSL | None listed |
| EINECS | Not all listed |
| ELINCS | None listed |
| NLP | None listed |
| AICS | Not all listed |
| IECS | All listed |
| ENCS | Not all listed |
| ECI | All listed |
| NZIoC | All listed |
| PICCS | All listed |

SAFETY DATA SHEET

Approval Date : 30/07/2005
Last Revision date: 15/09/2021
Print Date : 28/09/21
Page 7/7

BAKING SOLUTION

TCSI All listed

TSCA 12(b) Listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements.

Specific regulations safety, health and the environment for the chemical.

Transport regulation in Brazil: Resolution 5947: 2021 - ANTT.

Brazilian Association of Technical Standards (ABNT) - NBR 14725 - Part 1-4.

15.2 Federal regulations

TSCA No reporting requirement

SARA 313 No reporting requirement

SARA 311/312 No reporting requirement

SARA 302 No reporting requirement

CERCLA No reporting requirement

Clean Water Act No reporting requirement

15.3 State regulations

California Prop 65 No reporting requirement

US Right to know (New Jersey, Massachusetts, Pennsylvania, Rhode Island) No reporting requirement

16. OTHER INFORMATION

The information in this document is in accordance with the NBR 14725: 2014 Part 4.

Issue date: 30th July 2005.

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HMIS IV Hazard Ratings: Health - 3, Flammability - 0, Physical Hazard - 0

NFPA Hazard Ratings: Health - 3, Flammability - 0, Instability - 0

NOTE: HMIS IV and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this SDS must be considered.

The information contained in this SDS is furnished without warranty of any kind.

Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.