



SAFETY DATA SHEET FOR CHEMICALS  
MSDS

**Amide 60**

REVISION DATE: 6/18/2018

**1. - IDENTIFICATION OF PRODUCT AND COMPANY**

**Product name:** Amide

**Internal Code of product identification:**

**Company name:** USIQUÍMICA DO BRASIL LTDA.

**Address:** Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.

**Company Phone:** (11) 3821-7000 (PBX system) - (11) 2481-3355.

**Emergency call numbers:** SUATRANS - COTEC - Environmental Emergency.

DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.

193 - Firefighters.

**Main recommended uses for the substance:** Indicated for the manufacture of liquid detergents and cleaning products in general, providing thickening, emollient action, overfitting, restoring the natural skin oiliness. In normal use concentrations, it promotes and stabilizes the foam. In mixtures with LAS and Alkyl Ether Sulfates, exerts a synergistic action enhancing detergency.

**2. - HAZARDS IDENTIFICATION**

**Substances classification:**

Serious eye damage / eye irritation - Category 2B

Sensitization to the skin- Category 1

**Adverse effects to the human health:**


**Ingestion:** Harmful if swallowed.

**Eye contact:** Causes serious eye damage.

**Skin contact:** Cause irritation to the skin. It can cause allergic reactions to the skin.

**Inhalation:** When inhaled it can cause allergic symptoms, asthma or breathing difficulties.

**GHS labeling elements, including precautionary phrases:**

LABELING ELEMENTS	DATA
Product identification and supplier emergency phone.	Commercial Name: Amide 60 TB200 Synonym: Fatty Acid Diethanolamide Emergency call number: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Hazard pictogram.	
Warning words.	<b>DANGER</b>
Hazard phrase.	H302 Harmful if swallowed. H315 Causes irritation to the skin. H318 Causes serious eye damage H334 May cause allergy, asthma or breathing difficulties when inhaled. H317 May cause allergic skin reactions.
Caution Phrases.	- P280 Use protective gloves/protective clothing/eye protection/face shield. - P303+P361+P353 IN CASE OF SKIN CONTACT ( or with the hair): Remove immediately all contaminated clothing. Wash the skin with water/take a shower. - P304+P340+P310 IN CASE OF INHALATION: Remove the person to a ventilated area and keep the person in a rest position that does not make it difficult to breathe. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician. - P305+P351+P338+P310 IN CASE OF EYE CONTACT: Rinse



# SAFETY DATA SHEET FOR CHEMICALS MSDS

## Amide 60

REVISION DATE: 6/18/2018

	<p>Carefully with water for several minutes. If contact lenses are used, remove them if it is easy. Continue rinsing. Please Immediately contact a TOXICOLOGICAL INFORMATION CENTER/physician.</p> <p>- P308+P311 IN CASE OF exposure or suspected of exposure: Please contact a TOXICOLOGICAL INFORMATION CENTER/physician.</p> <p>P321 Specific treatment (see supplementary first aid instructions on this label).</p> <p>P332+ P313 in case of skin irritation: consult a physician.</p> <p>P337+P313 If eye irritation persists: consult a physician;</p> <p>P362 Remove contaminated clothing.</p> <p>P370+ P378 in case of fire: use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>P403 + P233 Store in a well-ventilated place. Keeping the container tightly closed. P405 Store in a place locked with a key.</p> <p>P501 Dispose of contents / container to an approved waste disposal facility.</p>
--	---

**Other hazards which do not result in classification:** No information found.

### 3. - COMPOSITION AND INFORMATION ON THE INGREDIENTS:

**Substance:** Fatty Acid Diethanolamide

**Common chemical name or generic name:** Amide 60

**Chemical Abstract Service (CAS No.):** 68603 -42 -9 **Impurities that contribute to the hazard:** Not applicable.

### 4. - FIRST AID MEASURES:

**First aid measures:**

**Inhalation:** Remove the victim to an uncontaminated and ventilated area. If you are breathing hard, administering oxygen. Apply resuscitation maneuvers in case of cardiorespiratory arrest. Immediately forward to the nearest hospital.

**Skin contact:** Remove clothing contaminated by the product. Wash the victim's mouth with plenty of water. If irritation persists, seek to physician.

**Eye contact:** Wash at once the eyes under running water for 15 minutes, lifting the eyelids to allow maximum product removal. Refer to the physician.

**Ingestion:** Provide 02 glasses of water or milk. If a large amount of this substance is ingested, see to physician immediately.

**What actions must be avoided:** Do not induce vomiting. If vomiting occurs spontaneously, the victim shall be lying on his side to prevent pulmonary aspiration. Never administer liquids to unconscious victims.

**Brief description of the main symptoms and effects:** Harmful if swallowed. Causes serious eye damage. Cause irritation to the skin. It can cause allergic reactions to the skin. When inhaled it can cause allergic symptoms, asthma or breathing difficulties.

**Notes to the physician:** Avoid contact with the product to help the victim. Keep the victim on standing and heated. Do not give anything by mouth to an unconscious person. Symptomatic treatment must include, mainly, supportive measures such as correction of hydro electrolytic, metabolic disorders, as well as respiratory assistance. In case of contact with the skin and/or eyes, do not rub the affected parts.

### 5. - FIRE FIGHTING MEASURES

**Extinguishing measures appropriate:** It is not flammable. In case of fire, use CO2 extinguisher, chemical powder, foam or water. To adapt fire-fighting measures to local conditions and the surrounding environment.

**Extinguishing measures not appropriate:** Water jets.

**Specific hazards:** Decomposition of the product can produce toxic fumes.

**Additional information:** The danger depends on the burning products and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official local legislation.

**fire fighter protection:** Special protective equipment for personnel deployed for firefighting. Do not stay in the danger zone without self-contained breathing apparatus suitable for breathing independently of the environment.



## SAFETY DATA SHEET FOR CHEMICALS MSDS

### **Amide 60**

REVISION DATE: 6/18/2018

To avoid contact with the skin, keep a safe distance and wear suitable protective clothing. Refresh closed containers exposed to fire with sprayable water. Suppress (throw) with water jets (fog) the gases, vapors and mists. Avoid to contamination of surface water and groundwater with water to fire fighting.

#### **6. - MEASURES OF CONTROL FOR SPILL OR LEAK**

##### **Personal precautions, protective equipment and emergency procedures:**

**Staff that is not part of the emergency services:** Do not breathe vapor or aerosols. Avoid to contact with the substance. Ensuring adequate ventilation. Evacuating the hazard area, observe emergency procedures. If necessary, consult a specialist.

**For the staff of the emergency department:** Using complete PPE, with PVC protective gloves, safety glasses with side protection and appropriate protective clothing. The material used must be waterproof. In case of large leaks, where exposure is large, it is recommended to use a protective mask with a filter against vapors or mists.

**Removal ignition sources:** Keeping away from sources of heat and ignition.

**Prevention of inhalation and contact with skin, mucous membranes and eyes:** Please see Section 8, Field: "Appropriate personal protective equipment".

**Precautions to the environment:** Avoid to spilled product reaching watercourses. Collect the spilled product, place the material in appropriate containers for proper final disposal.

**Methods and materials for containment and cleaning:** For small quantities it can be an inert absorbent material; large quantities must be dammed with earth, sand or other inert material. The product must be collected in suitable containers, duly identified, for later disposal. Wash the area with plenty of water, which must also be collected for disposal. Collect contaminated soil.

**Disposal:** The waste must be disposed in according with the current environmental legislation. Keep chemicals in their original containers. Do not mix with other wastes. The handling of dirty containers must be conducted in the same way as the product itself. An MSDS must be generated from the waste.

**Differences in the measures of large and small leaks:** For small quantities it can be an inert absorbent material; large quantities must be dammed with earth, sand or other inert material. The product must be collected in suitable containers, duly identified, for later disposal. Wash the area with plenty of water, which must also be collected for disposal. Collect contaminated soil.

#### **7. - HANDLING AND STORAGE**

##### **Handling:**

**Technical measures:** Use only in areas provided with adequate exhaust ventilation. Providing the product handling area with emergency shower set and eye wash. Handling must only be done with the indicated PPEs and under safe conditions.

**Prevention of worker's exposure:** Avoid a formation of vapors / aerosol. Working with exhaust / chimney. Do not inhale the substance / mixture. Wear specific PPEs - splash glasses, face shield, PVC gloves and protective clothing. To avoid inhaling vapors.

Washing after handling and decontaminate PPEs after use. The PPEs must be approved for use only with the respective CAs - Certificates of Approval.

**Precautions and guidelines for safe handling:** Use personal protective equipment (PPE) to avoid direct contact with the product. Handling the product in a well-ventilated place. Forms a slippery layer with water.

##### **Storage:**

**Appropriate:** Keep the container hermetically sealed in a dry, cool and well-ventilated area. Storing in a cool, dry place in unopened original packaging.

**To be avoided:** Avoid extreme heat.

##### **Hygiene measures:**

**Appropriate:** Always sanitize the hands before handling any food, as there is a risk of contamination of the food. Contaminated clothing must be washed and sanitized before the use. Keeping gloves free from moisture and decontaminated.

**Inappropriate:** Direct contact with the product and / or its residues.

##### **Technical measures:**



# SAFETY DATA SHEET FOR CHEMICALS MSDS

## Amide 60

REVISION DATE: 6/18/2018

**Adequate conditions:** Keeping containers closed and in a well-ventilated place. Keep containers protected from heat and direct sunlight. Avoid extreme temperatures. Avoid to moisture.

**Packaging safe materials:**

**Recommended:** Plastic drum (polyethylene). Appropriate tanks (steel or carbon) in case of bulk storage. Steel drums or plastic drums (high density polyethylene) with non-removable cover.

**Not appropriate:** Uncoated metals.

**Other information:** Protect from extreme cold, heat and sunlight.

### 8. - EXPOSURE CONTROLS AND INDIVIDUAL PROTECTION

**Parameters of specific control:**

**Occupational exposure limits:**

Data not available.

**Biological indicators:** Not found.

**Other limits and values:** N.A.

**Measures of engineering control:** Handling the product in a location with good natural or mechanical ventilation, in order to keep the concentration of vapors / dust below the tolerance limit. Promote mechanical ventilation and a direct exhaust system to the outside environment. These measures help to reduce product exposure. It is recommended to make emergency showers and eye washers available in the work area. Engineering control measures are the most effective in reducing product exposure.

**Appropriate personal protective equipment:**

**Adequate respiratory safety equipment in case of low concentrations or short term exposure:** Medium efficiency filter for solid and liquid particles.

**Eye Protection:** Hermetically sealed safety glasses.

**Skin and body protection:** Protective gloves (rubber); PVC apron and safety shoes.

**Respiratory protection:** Wear respiratory protection if dust, vapors or aerosols are generated.

**Hygiene measures:** Hands and face must be washed before breaks and at the end of the shift. Remove immediately all contaminated clothing. Wash contaminated clothing before reuse.

### 9. - PHYSICAL AND CHEMICAL PROPERTIES

**Physical condition:** Liquid.

**Form:** Viscosity.

**Color:** Yellowish.

**Odor:** Not determined by the manufacturer.

**pH:** 9.5 to 10.5 in 1% aqueous solution.

**Specific temperatures or temperature ranges in which physical condition changes occur:**

- **Boiling point:** Not available.
- **Melting point:** Not available.

**Flash point:** >100°C.

**Auto-ignition temperature:** Not available.

**Explosive limits: Lower (LEI):**

- Not applicable.
- **Superior (LES):** Not applicable.

**Vapor density:** > 1,00 (air = 1).

**Density:** 0.99 g/cm<sup>3</sup>. **Solubility:** In water: 100% soluble.

**Other information:** Free amine: 28% maximum. Amide: 60% minimum.

### 10. - STABILITY AND REACTIVITY

**Specific conditions:**

**Reactivity:** It can react with concentrated strong oxidizers.

**Chemical stability:** Stable.

**Conditions to be avoided:** High temperatures, sources of ignition and prolonged exposure to air.



# SAFETY DATA SHEET FOR CHEMICALS MSDS

## **Amide 60**

REVISION DATE: 6/18/2018

**Incompatible materials:** Strong oxidizers, strong acids and bases at high temperatures.

**Hazardous decomposition products:** By combustion or by thermal decomposition, after water evaporation, it releases: nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO + CO<sub>2</sub>)

### 11. - TOXICOLOGICAL INFORMATION

**Information according to the different manners of exposure: Oral Acute Toxicity:** DL50: > 2000 mg / Kg (rats)

**Acute inhalation toxicity:** Data not available.

**Dermal Acute Toxicity:** Data not available.

**Corrosion/irritation of skin:** Irritating to skin.

**Severe ocular lesions/eye irritation:** Risk of serious eye damage

**Mutagenicity:** Data not available.

**Carcinogenicity:** Data not available.

**Reproductive toxicity lactation:** Data not available.

**Toxicity specific to certain organs - targets single exposure:** Data not available.

**Systemic toxicity to specific target organ repeated exposures:** Data not available.

**Aspiration hazard:** Data not available.

**Respiratory or cutaneous sensitization:** Data not available.

**Chronic toxicity:** Data not available.

### 12. - ECOLOGICAL INFORMATION

**Environmental effects, behaviors and impacts of the product: Ecotoxicity:** Chemical oxygen demand 95% - 28 days. Fish toxicity: It can be harmful.

Toxicity to non-pathogenic microorganisms: It can be harmful.

**Persistence and degradability:**

**Disposal instructions:** The product is completely biodegradable.

**Mobility:**

Data not available.

**Evaluation of transport between environmental compartments: Bioaccumulation**

**Assessment of bioaccumulation potential:** It is not expected to accumulate in the environment.

**Additional information**

**Other ecotoxicological indications:** Unavailable information.

### 13. - CONSIDERATION ON THE FINAL DISPOSAL

**Recommended methods for final destination:**

The treatment and disposal of product wastes must be carried out in an appropriate environment, by people trained with the use of special equipment and the recommended PPE's to avoid contact with the product, its vapors or mists. Leaks must be contained and collected for later disposal after neutralization.

**Product:**

Ensure that all Federal, State and local agencies receive appropriate notices of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, of August 2, 2010 (National Policy on Solid Waste).

**Waste of products:**

Please consult environmental regulatory agencies for counselling on the acceptable disposal practices. Please contact the relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of at an approved chemical waste landfill.

**- Used Package:**

Empty packages must be drained and covered before handling and transport operations. If the packaging is not conveniently washed and decontaminated, it is considered to contain product.

### 14. - TRANSPORT INFORMATION



# SAFETY DATA SHEET FOR CHEMICALS MSDS

## Amide 60

REVISION DATE: 6/18/2018

### National and International Regulations

#### Land:

Resolution No. 5232 of as Wednesday, December 14, 2016 of the National Land Transport Agency (ANTT), *Approves the Supplementary Instructions to the Regulation for the Land Transportation of Dangerous Products and their modifications.*

**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

#### Waterway:

DPC - Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Standards (NORMAM) NORMAM 01 / DPC: Vessels Employed in Open Sea Navigation

**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

#### Air:

ANAC - Civil Aviation National Agency - Resolution No. 129 of as 8 January, 2009

RBAC No. 175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORT OF DANGEROUS MATERIALS IN CIVIL AIRCRAFT

IS No. 175-001 - SUPPLEMENTARY INSTRUCTION - IS

ICAO - "International Civil Aviation Organization" - Doc 9284-NA / 905

IATA - "International Air Transport Association" Dangerous Goods Regulation (DGR)

**ONU number:** Product not classified by the Legislation in force on the o transport of dangerous products.

**Appropriate name for shipment:** -

**Risk class:** -

**Risk subclass:** -

**Risk number:** -

**Packaging group:** -

## 15. - INFORMATION ON THE REGULATIONS

### Specific regulations for the chemicals:

Federal Decree No. 2,657 of as July 3, 1998;

Standard ABNT-NBR 14725:2014;

Ordinance No. 229, of as May 24, 2011 - Amends Regulatory Standard No. 26.

## 16. - OTHER INFORMATION

The information in this sheet corresponds to the current status of our knowledge and our product experience and is not exhaustive. Applies to the product under the conditions specified, unless mention otherwise. In case of combinations or mixtures, make sure that no new hazards can appear. This information does not exempt, in any case, the user of the product from respecting the all legislative, regulatory and administrative texts related to the product, safety, hygiene and protection of human and environmental health.

### Bibliographical References:

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the "Documentation" dos Limites de Exposição Ocupacional (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Brazilian Association of Occupational Hygienists Translation. São Paulo, 2016.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE) Regulatory Standard (NR) No. 7: Programa de controle médico de saúde ocupacional. Brasília, DF. Jun. 1978.



SAFETY DATA SHEET FOR CHEMICALS  
MSDS

**Amide 60**

REVISION DATE: 6/18/2018

---

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE) Regulatory Standard (NR) No. 15: Atividades e operações insalubres. Brasília, DF. Jun. 1978.

EPA of USA. 2011. EPI Suite™ for Microsoft® Windows, v 4.10. United States: Environmental Protection Agency, Washington. 2011. Available at:

<<http://www.epa.gov/oppt/exposure/pubs/episuite.htm>>. Access on: June, 2018.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 7. rev. United Nations, 2017.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>>. Access on: June, 2018.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at:

<<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access on: June, 2018.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <<http://www.inchem.org/>>. Access on: June, 2018.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.I.]: European chemical Bureau. Available at: <<http://ecb.jrc.ec.europa.eu>>. Access on: June, 2018.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <<http://www.cdc.gov/niosh/>>. Access on: June, 2018.

NITE-GHS JAPAN - NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION. Available at:

<[http://www.safe.nite.go.jp/english/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs_index.html)>. Access on: June, 2018.

U.S. ENVIRONMENTAL PROTECTION AGENCY. ECOSAR - Ecological Structure-Activity Relationships. Versão 1.11. Available at: <<http://www.epa.gov/oppt/newchems/tools/21ecosar.htm>>. Access on: June, 2018.