

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: CATALYST FOR CLASSICAL PDA 1:3 EPOXY ENAMEL

Revision: 03

Date: 10/26/2021

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1 - IDENTIFICATION

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| GHS Product identifier: | CATALYST FOR CLASSICAL PDA 1:3 EPOXY ENAMEL |
| Other means of identification: | 038184-00 |
| Recommended use of the chemical: | INDUSTRIAL USE. |
| Specific restrictions on use: | There are not known restrictions on use of the product. |
| Supplier's details: | ANJO QUIMICA DO BRASIL LTDA |
| Address: | Acesso Estadual Rio Maina, nº 1165, Bairro Vila Macarini CEP: 88818-800, Criciúma - SC - BR |
| Phone number(s): | (48) 34618000 (48) 34618049 |
| Emergency phone number: | CIATox/SC (Centro de Informação e Assistência Toxicológica de Santa Catarina) 08006435252 |

2 - HAZARD IDENTIFICATION

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| Classification of the substance or mixture: | Flammable Liquids - Category 2 Acute Toxicity - Oral - Category 5 Skin Corrosion/Irritation - Category 2 Serious eye damage/eye irritation - Category 2A Respiratory Sensitization - Category 1 Skin Sensitization - Category 1 Carcinogenicity - Category 2 Reproductive Toxicity - Category 1B Specific Target Organ Toxicity - Single Exposure - Category 3 - Narcotic and Category 3 - Respiratory Hazardous to the Aquatic Environment - Acute Hazard - Category 2 Hazardous to the Aquatic Environment - Chronic Hazard - Category 3 |
| Classification system adopted: | Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations. |

GHS label elements, including precautionary statements

Pictograms:



Signal word: DANGER

Hazard statement(s):
 H225 Highly flammable liquid and vapour.
 H303 May be harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary
statement(s):

PREVENTION:

P203 Obtain, read and follow all safety instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
P284 In case of inadequate ventilation, wear respiratory protection.

RESPONSE TO EMERGENCY:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318 IF exposed or concerned, get medical advice.
P319 Get medical help if you feel unwell.
P321 Specific treatment.
P332 + P317 If skin irritation occurs: Get medical help.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P342 + P316 If experiencing respiratory symptoms: Get emergency medical help immediately.
P362 + P364 Take off contaminated clothing. And wash it before reuse.
P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

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Other hazards which do not result in classification: It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

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| Components contributing to the hazard: | Xylene (CAS 1330-20-7): 22.50 - 67.50 %; Fatty acids. c18-unsaturated. dimers. reaction products with polyethylenepolyamines (CAS 68410-23-1): 9.50 - 28.50 %; 2-ethoxyethanol (CAS 110-80-5): 5.50 - 16.50 %; Methyl isobutyl ketone (CAS 108-10-1): 5.50 - 16.50 %; 2-butanol (CAS 78-92-2): 5.50 - 16.50 %; Triethylenetetramine (CAS 112-24-3): 0.50 - 1.50 %. |
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4 - FIRST-AID MEASURES

Routes of exposure

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| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS. |
| Skin: | Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS. |
| Eye: | Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS. |
| Ingestion: | Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS. |
| Most important symptoms/effects, acute and delayed: | May cause an allergic skin reaction with dermatitis and pruritus. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May be harmful if swallowed. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing. |
| Indication of immediate medical attention and special treatment needed, if necessary: | Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area. |

5 - FIRE-FIGHTING MEASURES

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| Extinguishing Media: | Appropriate: carbon dioxide (CO ₂), foam, water mist and powder. Inappropriate: water jet directly. |
| Specific hazards arising from the chemical: | The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated. |

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| Special protective actions for fire-fighters: | Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist. |
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6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel: | Do not smoke. Avoid exposure to the product. If necessary, use personal protective equipment as described in Section 8. |
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| For emergency responders: | Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask. |
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| Environmental precautions: | Avoid that the spilled material reaches waterways or sewage system. |
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| Method and materials for containment and cleaning up: | Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. |
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7 - HANDLING AND STORAGE

Precautions for safe handling

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| Safe handling of the substance or mixture: | Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. |
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| General hygiene: | Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. |
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Conditions for safe storage, including any incompatibilities

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| Technical measures for prevention of fire and explosion: | It is not expected that the product presents a fire or explosion hazard. Use personal protective equipment as described in Section 8. |
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| Adequate conditions: | Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. Keep stored at room temperature not exceeding 35°C (95°F). |
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| Packaging compatibilities: | Similar to the original packaging. |
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| Inadequate packaging materials: | There are not known unsuitable material of the product. |
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8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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| Occupational exposure limit: | The values below apply to workplaces. |
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- 2-ethoxyethanol:

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OSHA - PEL - TWA: 200 ppm; 740 mg/m³;
NIOSH - REL - TWA: 0.5 ppm;
ACGIH - TLV - TWA: 5 ppm.
- Methyl isobutyl ketone:
OSHA - PEL - TWA: 100 ppm; 410 mg/m³;
NIOSH - REL - TWA: 50 ppm;
NIOSH - REL - STEL: 75 ppm;
ACGIH - TLV - TWA: 20 ppm;
ACGIH - TLV - STEL: 75 ppm.
- 2-butanol:
OSHA - PEL - TWA: 150 ppm; 450 mg/m³;
NIOSH - REL - TWA: 100 ppm;
NIOSH - REL - STEL: 150 ppm;
ACGIH - TLV - TWA: 100 ppm.
- Xylene:
OSHA - PEL - TWA: 100 ppm; 435 mg/m³;
NIOSH - REL - TWA: 100 ppm;
NIOSH - REL - STEL: 150 ppm;
ACGIH - TLV - TWA: 100 ppm;
ACGIH - TLV - STEL: 150 ppm.

Biological limit: - 2-ethoxyethanol:
ACGIH - BEI: Determinant: 2-Ethoxyacetic acid in urine. Sampling Time: End of shift at end of workweek. Index: 100.00 mg/g creatinine.
- Methyl isobutyl ketone:
ACGIH - BEI: Determinant: Methyl isobutyl ketone in urine. Sampling Time: End of shift. Index: 1.00 mg/L.
- Xylene:
ACGIH - BEI: Determinant: Methylhippuric acids in urine. Sampling Time: End of shift. Index: 1.50 g/g creatinine.

Other limits and values: - Methyl isobutyl ketone:
IDLH: 500 ppm.

Appropriate engineering controls: Provide mechanical ventilation and direct exhaust system to the outside environment. These measures help reduce the exposure to the product. Maintain atmospheric concentrations, of the constituents of the product, below the indicated occupational exposure limits. Maintain atmospheric concentrations of the constituents of the product below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses.

Skin protection: Closed shoes and suitable protective clothing. Appropriate protective gloves.

Respiratory protection: A risk assessment should be performed for proper definition of respiratory protection, in view of the product use conditions.

Thermal hazards: Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Liquid.

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| Color: | Not available. |
| Odour: | Not available. |
| Melting point/freezing point: | Not available. |
| Boiling point or initial boiling point and boiling range: | Not available. |
| Flammability: | Flammable. |
| Lower and upper explosion limit/flammability limit: | Not available. |
| Flash point: | < 23 °C (73.4 °F) - Closed cup. |
| Auto-ignition temperature: | Not available. |
| Decomposition temperature: | Not available. |
| pH: | Not available. |
| Kinematic viscosity: | Not available. |
| Solubility(ies): | Water immiscible. |
| Partition coefficient n-octanol/water (log value): | Not available. |
| Vapour pressure: | Not available. |
| Relative vapour density: | Not available. |
| Density and/or relative density: | Not available. |
| Particle characteristics: | Not applicable. |
| Other information: | Absolute density: 0.85 to 0.88 g/cm ³ . |

10 - STABILITY AND REACTIVITY

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| Reactivity: | Reactivity is not to be expected under normal conditions of temperature and pressure |
| Stability: | Product is stable under normal conditions of temperature and pressure. |
| Possibility of hazardous reactions: | Xylene: Risco de explosão quando em contato com ácido nítrico e hexafluoreto de urânio. Pode reagir perigosamente com agentes oxidantes e ácido sulfúrico. Methyl isobutyl ketone: Pode formar peróxidos instáveis e explosivos em contato com o ar 2-butanol: A substância pode formar peróxidos explosivos. Reage com alumínio e trióxido de cromo formando gases inflamáveis e explosivos. 2-ethoxyethanol: A substância pode formar peróxidos explosivos. Reage com agentes oxidantes fortes com risco de |

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| | incêndio e explosão. |
| Conditions to avoid: | Elevated temperatures. Contact with incompatible materials. |
| Incompatible material: | Acids, Aluminum, Copper, Nitric acid, Organic peroxides, Oxidizing Agents, Oxygen, Plastic, Potassium tert-butoxide, Reducing Agents, Rubber, Strong base, Strong reducing agents, Sulphuric acid and Zinc. |
| Hazardous decomposition products: | There are not known hazardous decomposition products. |

11 - TOXICOLOGICAL INFORMATION

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| Acute toxicity: | Product not classified as acute toxic by dermal. May be harmful if swallowed. ATEmix Oral: 3173,480 mg/kg. ATEmix Dermal: > 5000 mg/kg. |
| | Information regarding to : - <u>2-ethoxyethanol</u> : LD ₅₀ Oral (rats): 2451 mg/kg. - <u>Methyl isobutyl ketone</u> : LD ₅₀ Oral (guinea pigs): 1600 mg/kg. - <u>2-butanol</u> : LD ₅₀ Oral (rats): 2190 mg/kg. |
| Skin corrosion/irritation: | Causes skin irritation with redness, pain and dryness. |
| Serious eye damage/irritation: | Causes serious eye irritation with redness and pain. |
| Respiratory or skin sensitization: | May cause an allergic skin reaction with dermatitis and pruritus. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Germ cell mutagenicity: | It is not expected that the product presents germ cell mutagenicity. |
| Carcinogenicity: | Suspected of causing cancer. Information regarding to : - <u>Methyl isobutyl ketone</u> : Possibly carcinogenic to humans (Group 2B - IARC). |
| Reproductive toxicity: | May damage fertility or the unborn child. Information regarding to : - <u>2-ethoxyethanol</u> : Animal studies have shown adverse effects on sexual function and fetal development toxicity. |
| STOT - Single exposure: | May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing. Information regarding to : - <u>Xylene</u> : At high concentrations may cause hypotension, tachycardia, vasodilation, dizziness, incoordination, headache, confusion, stupor and coma. - <u>2-butanol</u> : to central nervous system if inhaled. |
| STOT - Repeated | It is not expected that the product presents specific target organ toxicity by repeated |

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exposure: exposure.

Aspiration Hazard: It is not expected that the product presents aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.
Information regarding to :
- Xylene:
NOEC (*Oncorhynchus mykiss*, 56 d): > 1 mg/L;
NOEC (*Ceriodaphnia dubia*, 7 d): > 1 mg/L;
LC₅₀ (*Lepomis macrochirus*, 96h): 19 mg/L;
EC₅₀ (Crustacea, 48h): 8.5 mg/L.
- Fatty acids, c18-unsaturated, dimers, reaction products with polyethylenepolyamines:
ErC₅₀ (*Pseudokirchneriella subcapitata*, 72h): 4.11 mg/L.
- Triethylenetetramine:
LC₅₀ (*Poecilia reticulata*, 96h): > 100 mg/L;
NOEC (*Daphnia magna*, 21 d): 1 mg/L;
ErC₅₀ (*Scenedesmus subspicatus*, 72h): 2.5 mg/L;
EC₅₀ (*Daphnia magna*, 48h): 31.1 - 33.9 mg/L.

Persistence and degradability: It is expected that the product presents persistence and it is not considered readily biodegradable.
Information regarding to :
- Fatty acids, c18-unsaturated, dimers, reaction products with polyethylenepolyamines:
Biodegradability rate: 15% in 28 days.

Bioaccumulative potential: Presents low bioaccumulative potential in aquatic organisms.
Information regarding to :
- Xylene:
BCF: 6
log *K*_{ow}: 3.09.

Mobility in soil: Not determined.

Other adverse effects: There are not known other environmental effects for this product.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.
Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFORMATION

Road: UN - United Nations: Model Regulations:
• Recommendations on the Transport of Dangerous Goods.

Railway regulations: COTIF - Convention concerning International Carriage by Rail:
• Appendix C: RID - Regulations concerning the International Carriage of

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- Dangerous Goods by Rail

Sea: IMO - International Maritime Organization:
• IMDG Code - International Maritime Dangerous Goods Code.

Air: IATA - International Air Transport Association:
• DGR - Dangerous Goods Regulation.

UN number: Not classified as hazardous to transport in different modals.

Special precautions for user: Not applicable

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Elaborated October 2021.

Change Control:

| Version | Elaboration | Changes |
|---------|-------------|--|
| 03 | 10/26/2021 | Change in composition. Change in section: 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16. |

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BCF - Bioconcentration factor;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
EC - European Community;
EC₅₀ - Effective Concentration 50%;
EEC - European Economic Community;
Er₅₀ - Effective concentration that results in a 50% reduction in the growth rate;
IARC - International Agency for Research on Cancer;
IDLH - Immediately Dangerous to Life or Health;
K_{ow} - Octanol/Water partition coefficient;
LC₅₀ - Lethal Concentration 50%;
LD₅₀ - Lethal Dose 50%;
NIOSH - National Institute for Occupational Safety and Health;

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NOEC - No Observed Effect Concentration;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations.

Bibliographic references:

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 8th rev. ed. New York: United Nations, 2019.

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2020.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Oct. 2021.

GESTIS - SUBSTANCE DATABASE. Available at: < [http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates\\$fn=default.htm\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$3.0) >. Access in: Oct. 2021.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Oct. 2021.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Oct. 2021.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: Oct. 2021.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: <http://ecb.jrc.ec.europa.eu>. Access in: Oct. 2021.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: Oct. 2021.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Disponível em: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Oct. 2021.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>. Access in: Oct. 2021.