

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 1/10

SECTION 1: IDENTIFICATION

GHS product identifier:	Catalyst 30, Catalyst 60
Other means of identification:	472101, 472102
Recommended use of the chemical and restrictions on use:	Used as an additive to contact adhesive for repair and splicing of conveyor belts. Restrictions on use: This product should not be used for applications other than those recommended in this section. Remove all ignition sources. Keep away from heat, open flames, hot surfaces, sparks and do not smoke. For more information, consult the product technical data sheet.
Supplier's details:	BORRACHAS VIPAL S.A Address: Rua Buarque de Macedo, 365, CEP: 95320-000 - Nova Prata - RS - Brasil. Phone number: (54) 3242-3800 E-mail: vipal@vipal.com.br
Emergency phone number:	(54) 3242-3800

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture:	Flammable Liquids - Category 3; Acute Toxicity - Inhalation - Category 4; Skin Corrosion/Irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Respiratory Sensitization - Category 1; Skin Sensitization - Category 1; Carcinogenicity - Category 2; Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic and Category 3 - Respiratory; Specific Target Organ Toxicity – Repeated Exposure - Category 1; Aspiration Hazard - Category 1.
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):

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 2/10

Precautionary
statement(s):

H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H372 Causes damage to the respiratory system through prolonged or repeated exposure.

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.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or with adequate ventilation.
P272 Contaminated work clothing should not be allowed out of the workplace.
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:

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
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 [or shower].
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.
P317 Get medical help.
P318 IF exposed or concerned, get medical advice.
P319 Get medical help if you feel unwell.
P321 Specific treatment.
P331 Do NOT induce vomiting.
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 Store in a well-ventilated place.
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.

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 3/10

Other hazards which do not result in classification: The product has no other hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**MIXTURE**

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Isocyanic acid polymethylenepolyphenylene ester	9016-87-9 618-498-9	60.00 - 90.00
Xylene	1330-20-7 215-535-7	36.00 - 54.00

SECTION 4: FIRST-AID MEASURES**Description of necessary first-aid measures**

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	May cause an allergic skin reaction with pruritus and dermatitis. Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May cause allergy or asthma symptoms or breathing difficulties if inhaled with shortness of breath and tiredness. May be fatal if swallowed and enters airways. Harmful if inhaled. Causes damage to the respiratory system through prolonged or repeated exposure. 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 when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 4/10

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO ₂), foam, water mist and powder. Unsuitable: water directly onto the burning material.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated.
Special protective actions for fire-fighters:	If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:	Isolate the leak from sources of ignition. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product unless wearing suitable clothing. Avoid exposure to the product. Stay in a safe place with the wind at your back. Use personal protective equipment as described in section 8.
For emergency responders:	Use full PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In the event of a leak, where exposure is high, the use of an appropriate respiratory protection mask is recommended.
Environmental precautions:	Prevent spilled product from reaching watercourses and sewage systems.
Methods and materials for containment and cleaning up:	Use water mist to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Absorb remaining product with dry sand, earth, vermiculite, or any other inert material. Place adsorbed product in appropriate containers and remove them to a safe location. Use non-sparking tools to collect absorbed product. All equipment used for handling must be electrically grounded. For final disposal, proceed as per Section 13 of this document.

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling**

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid formation of vapors and mists. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	It is not expected that the product presents a fire or explosion hazard.
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SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 5/10

Conditions for safe storage, including any incompatibilities: Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Occupational exposure limit: The values below apply to workplaces.

- Xylene:
OSHA - PEL - TWA: 100 ppm (435 mg/m³) (29 CFR 1910.1000 Table Z-1) (CFR);
NIOSH - REL - TWA: 100 ppm (435 mg/m³);
NIOSH - REL - STEL: 150 ppm (655 mg/m³);
ACGIH - TLV - TWA: 20 ppm.

CFR: See mentioned item in OSHA CFR.

Biological limit: - Xylene:
ACGIH - BEI: Determinant: Methylhippuric acid in urine. Sampling Time: End of shift. Index: 0.3 g/g creatinine.

Other limits and values: No other limits and values are established.

Appropriate engineering controls: A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

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

Eye/face protection: Fully enclosed protective goggles.

Skin protection: Impervious clothing or protective clothing chemically resistant to the product. Nitrile gloves.

Respiratory protection: Half face mask with filter against organic vapors.

Thermal hazards: It does not present thermal hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Colour: Brown.

Odour: Characteristic.

Melting point/freezing point: Not available.

SAFETY DATA SHEET
Product: Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 6/10

Boiling point or initial boiling point and boiling range:	130 to 150 °C (266 to 302 °F) at 101.3 kPa.
Flammability:	Flammable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	34 °C (93.2 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	Not available.
Kinematic viscosity:	Not available.
Solubility:	Immiscible in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Absolute density: 1.0564 g/cm ³ .
Relative vapour density:	Not available.
Particle characteristics:	Not applicable.
Other information:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reactions:	<p>- <u>Isocyanic acid polymethylenepolyphenylene ester:</u> Polymerization may occur at high temperatures. It may react dangerously with alcohols, amines, ammonia, sodium hydroxide, acids and water. In contact with water, it undergoes hydrolysis and reacts to form carbon dioxide and polyurea.</p> <p>- <u>Xylene:</u> Risk of explosion when in contact with nitric acid and uranium hexafluoride. May react dangerously with oxidizing agents, acids and sulfuric acid.</p>
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials. Moisture.
Incompatible materials:	Acids, alcohols, alcohols, amines, ammonia, base, nitric acid, oxidizing agents, oxygen, sodium hydroxide, sulphuric acid, uranium hexafluoride and water.
Hazardous decomposition products:	No dangerous decomposition products are known.

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 7/10

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by oral and dermal. Harmful if inhaled. ATEmix Oral: 4764.501 mg/kg. ATEmix Dermal: 2811.111 mg/kg. ATEmix Vapours (4h): > 20 mg/L. ATEmix Dusts and mists (4h): 1.252 mg/L. Information regarding to: - <u>Isocyanic acid polymethylenepolyphenylene ester</u> : LC ₅₀ Dusts and mists (rats, 4h): 0.49 mg/L - <u>Xylene</u> : LC ₅₀ Vapours (rats, 4h): 10 - 20 mg/L.
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 pruritus and dermatitis. May cause allergy or asthma symptoms or breathing difficulties if inhaled with shortness of breath and tiredness. The ingredient Isocyanic acid polymethylenepolyphenylene ester is classified as a skin sensitizer and contributes to this product classification. The ingredient Isocyanic acid polymethylenepolyphenylene ester is classified as a respiratory sensitizer and contributes to this product classification.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	Suspected of causing cancer.
Reproductive toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	May cause drowsiness or dizziness, may cause dizziness and nausea. May cause respiratory irritation, may cause cough and sneezing.
STOT - Repeated exposure:	Causes damage to the respiratory system through prolonged or repeated exposure.
Aspiration hazard:	May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	It is not expected to be ecotoxic.
Persistence and degradability:	Although it is not possible to conclude that it is rapidly degradable, it is not expected to persist in the environment.
Bioaccumulative potential:	Presents low bioaccumulative potencial in aquatic organisms. Information regarding to: - <u>Xylene</u> : BCF: 6 log <i>K</i> _{ow} : 3.09.
Mobility in soil:	Not determined.

SAFETY DATA SHEET**Product:** Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 8/10

Other adverse effects: No other environmental effects known.

SECTION 13: DISPOSAL CONSIDERATIONS**Disposal methods**

Must be disposed of as 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.

SECTION 14: TRANSPORT INFORMATION**Road:** UN - United Nations: Model Regulations:
• Recommendations on the Transport of Dangerous Goods.

UN number: 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Xylene)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: The product is not considered dangerous for the environment for land transport.

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

UN number: 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Xylene)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: The product is not considered dangerous for the environment in rail transport.

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

UN number: 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Xylene)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: It's not considered a marine pollutant for transportation.

EmS: F-E, S-E

SAFETY DATA SHEET

Product: Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 9/10

Air: IATA - International Air Transport Association:
• DGR - Dangerous Goods Regulation.**UN number:** 1993**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Xylene)**Transport hazard class(es):** 3**Packing group:** III**Environmental hazards:** The product is not considered dangerous for the environment for air transport.**Special precautions for user:** Not applicable.**Transport in bulk according to IMO instruments:** Consult regulations:

- International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;
- International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

SECTION 15: REGULATORY INFORMATION**Safety, health and environmental regulations specific for the product in question**

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

TSCA: We certify that all the components of this product are listed on the TSCA Inventory Active.**Prop.65:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. For more information go to www.P65Warnings.ca.gov.**SECTION 16: OTHER INFORMATION**

This document 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 products, 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.

Change control:

Version	Manufacture date	Changes
03	05/14/2026	Change in composition. Change in section: 1, 2, 3, 9, 10 and 11.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;

ATEmix - Acute Toxicity Estimate of the mixture;

BCF - Bioconcentration factor;

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

SAFETY DATA SHEET

Product: Catalyst 30, Catalyst 60

Revision: 03

Date: 05/14/2026

Pages: 10/10

BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
 K_{ow} - Octanol-water partition coefficient;
LC₅₀ - Lethal Concentration 50%;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PBT - Persistent, bioaccumulative and toxic;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations;
vPvB - Very Persistent and very Bioaccumulative.

Bibliographic references:

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, 2025.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.