

# Safety Data Sheet



## 1. Identification

**Product Information:** 00776900  
**Family:** 509  
**Product Name:** KLASS RAPID CLEAR HARDENER  
**Recommended Use:** Catalyst  
**Supplied by/Manufacturer:** SUR QUIMICA S.A.  
 Calle 38, contiguo al Cementerio La Uruca.  
 San José, Costa Rica, Centroamérica  
 Tel Información: (506) 2211-3700,  
 Fax: (506) 2256-0690  
**Emergency Telephone:** CHEMTREC: 1-800-424-9300 INTERNATIONAL: (506) 2211-3911  
**Safety Data Sheet Coordinator:** sds@gruposur.com

## 2. Hazards Identification

### GHS Classification

Acute Tox. 2 Inhalation, Aquatic Chronic 3, Flam. Liq. 3, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 NE, STOT SE 3 RTI

### Symbol(s) of Product



**Signal Word**  
 Danger

### GHS HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Acute Toxicity, Inhalation, category 2	H330	Fatal if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

### GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash skin 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.
P284	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see FIRST AID on this sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use materials indicated in Section 5 to extinguish.
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.
P501	Remove the contents / container according to the General Regulation for the Classification and Management of Hazardous Waste No. 41527-S-MINAE (Applies to Costa Rica). Dispose of contents/container in accordance with local/regional/national/international regulations.

**GHS SDS PRECAUTIONARY STATEMENTS**

P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

**3. Composition/Information on Ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
homopolímeros de 1,6-diisocianato de hexametileno	28182-81-2	30-40	GHS06	H317-330-335
n-Butyl Acetate	123-86-4	20-30	GHS02-GHS07	H225-315-320-332-336-402
Metyl Ethyl Ketone	78-93-3	10-20	GHS02-GHS07	H225-303-315-320-335-336
1-methyl-2-methoxyethyl acetate	108-65-6	10-20	GHS02	H226-313
4-Toluenosulfonil-isocianato	4083-64-1	1.0-2.5	GHS07-GHS08	H303-315-319-334-335
Aromatic Petroleum Hidrocarbon	64742-95-6	1.0-2.5	GHS02-GHS07 -GHS08-GHS09	H226-303-304-317-335-336-411
1,2,4-trimethyl benzene	95-63-6	1.0-2.5	GHS02-GHS07 -GHS08-GHS09	H226-304-315-319-335-411

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

**4. First-aid Measures**

**FIRST AID - INHALATION:** Artificial respiration and/or oxygen may be necessary. Keep the victim calm. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Oxygen or artificial respiration if needed. If inhaled, remove to fresh air. Give oxygen if necessary. Consult a physician if symptoms persist or exposure is severe.

**FIRST AID - SKIN CONTACT:** In case of skin contact, wash immediately with plenty of water for at least 20 minutes. Persistent skin irritation may be treated with topical applications of anaesthetic ointments. Wash off immediately with plenty of water for at least 15 minutes. In case of burns, immediately wash skin with cold water. Seek medical advice. Do not remove clothes stick to the skin. Seek medical advice.

**FIRST AID - EYE CONTACT:** Flush eye(s) immediately with plenty of water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**FIRST AID - INGESTION:** If ingested, do not induce vomiting. If conscious, drink 8-10 oz. of water promptly. Call a physician immediately.

## 5. Fire-fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Heating may cause an explosion. Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). When heated, emits highly irritating and noxious vapors.

**SPECIAL FIREFIGHTING PROCEDURES:** Do not use a solid water stream as it may scatter and spread fire. Move containers from fire area if you can do it without risk. All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Flammable. Cool fire-exposed containers using water spray. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

## 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** Do not allow to enter drains, sewers, or sewers. Inform the authorities in the event of a leak in natural water courses or in the sewage system.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contains isocyanates. In order to neutralize the isocyanate, the area of ??the spill can be decontaminated with the following recommended solution: Mix of 90% water, 8% concentrated ammonia and 2% detergent. Add in a ratio of 10 to 1. Allow to stand at least 48 hours to allow carbon dioxide to escape. For the treatment of waste, clean the area of ??the spill with decontaminating solution, let the solution rest for at least 10 minutes

## 7. Handling and Storage



**HANDLING:** Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Never use air pressure for transferring product. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children. Take precautionary measures against static discharges. Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning.

**STORAGE:** It contains isocyanates. Possibility of CO<sub>2</sub> overpressure formation. Keep the container tightly closed and in a well-ventilated place. Storage temperature: 0 to 38 °C.

## 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
homopolímeros de 1,6-diisocianato de hexametileno	N.E.	N.E.	N.E.	N.E.
n-Butyl Acetate	150 ppm	N.E.	N.E.	N.E.
Metyl Ethyl Ketone	N.E.	N.E.	200 ppm	N.E.
1-methyl-2-methoxyethyl acetate	50 mg/L	100 mg/L	N.E.	N.E.
4-Toluenosulfonil-isocianato	N.D.	N.E.	N.D.	N.E.
Aromatic Petroleum Hidrocarbon	25	N.E.	N.E.	N.E.
1,2,4-trimethyl benzene	N.D.	N.E.	N.E.	N.E.

**Further Advice:** MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
Sk = Skin Sensitizer N.E. = Not Established

### Personal Protection



**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment.



**SKIN PROTECTION:** Cover the maximum amount of exposed skin to avoid any skin contact. Wear nitrile or neoprene gloves. Gloves should be inspected before use. Use the correct technique to remove the gloves (without touching the exterior surface) to prevent skin contact with the product.



**EYE PROTECTION:** Safety glasses with side-shields to prevent possible splashing of the product. Wear chemical goggles and faceshield (if not wearing a full facepiece respirator). Wear approved eye protection according to applicable governmental regulations.



**OTHER PROTECTIVE EQUIPMENT:** When required, according to the concentration of the product, wear chemical protective clothing with limited thermal protection.



**HYGIENIC PRACTICES:** No Information

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Liquid	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Characteristic	<b>Odor Threshold, ppb:</b>	Not Established
<b>Density, g/ml:</b>	0.974	<b>pH:</b>	N.A.
<b>Freeze Point, °C:</b>	No Information	<b>Viscosity, cP:</b>	
<b>Solubility in Water:</b>	No	<b>Partition Coefficient, n-octanol/water:</b>	No Information
<b>Decomposition temperature, °C</b>	No Information		
<b>Boiling Range, °C:</b>	0 - 0	<b>Explosive Limits, %:</b>	1.1 - 10.8
<b>Combustibility:</b>	Sin Información	<b>Flash Point, °C:</b>	28
<b>Evaporation Rate:</b>		<b>Auto-Ignition Temperature, °C</b>	No Information
<b>Vapor Density:</b>	No Information	<b>Vapor Pressure, mmHg:</b>	No Information

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**STABILITY:** Contains Isocyanate. Reacts with water to form carbon dioxide. Explosion risk Reactions with alcohols. Reactions with acids. Reactions with alkalis (bases). Reactions with amines. Danger of exothermic reaction. Polymerization hazard. Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Avoid atmospheric humidity Keep away from sources of ignition: heat, flame and sparks.

**INCOMPATIBILITY:** Incompatible with acids, amines, alcohols, water, Alkaline, strong bases, Substances and / or products that react with isocyanates. Isocyanate reacts with water to form carbon dioxide. Explosion risk Reactions with alcohols. Reactions with acids. Reactions with alkalis (bases). Reactions with amines. Oxidizing agents, strong acids and strong bases. Keep away from strong oxidizing agents, heat and open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** It can produce carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases / vapors.

## 11. Toxicological Information



### Practical Experiences

### INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute Toxicity:** No Information

**Skin corrosion/irritation:** No Information

**Serious eye damage/eye irritation:** May cause moderate eye irritation. May cause moderate corneal injury. Vapor may cause eye irritation experienced as mild discomfort and redness. Vapor may cause lacrimation (tears).

**Respiratory or skin sensitisation:** It contains isocyanates. overexposure isoacyanates cause respiratory and skin sensitization. In

case of sensitization by breathing, allergic symptoms (similar to asthma) in the lower respiratory tract can not be ruled out, including sneezing, shortness of breath and respiratory distress, which may appear later. In case of repeated inhalation of high concentrations, you can not rule out lesions in the lungs, as well as a reduction in lung function that may be permanent. In the case of substances that irritate the lower respiratory tract, asthma-type reactions can not be ruled out due to the exposure of the product.

**Germ cell mutagenicity:** No Information

**Carcinogenicity:** No Information

**Reproductive toxicity:** No Information

**Specific target organ toxicity - single exposure:** It contains isocyanate. Inhalation of vapors may cause respiratory irritation, shortness of breath, chest discomfort, and reduced lung function. Overexposure well above permissible exposure levels may cause bronchitis, bronchial spasms, and pulmonary edema.

**Specific target organ toxicity - repeated exposure:** It contains isocyanates. It has been shown that long-term exposure to isocyanates causes damage to the lungs, including a reduction in lung function that may be permanent. Acute or chronic overexposure to isocyanates can cause sensitization in some people, causing allergic respiratory reactions, including wheezing, shortness of breath and shortness of breath, animal tests indicate that after contact with the skin can cause respiratory sensitization.

**Aspiration hazard:** No Information

#### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50 (mg/kg)</u>	<u>Vapor LC50</u>
28182-81-2	homopolímeros de 1,6-diisocianato de hexametileno	>5000	>5000	0.390
123-86-4	n-Butyl Acetate	7400	>14000	21
78-93-3	Metyl Ethyl Ketone	2737	6780	32
108-65-6	1-methyl-2-methoxyethyl acetate	8532	>2000	>20
4083-64-1	4-Toluenosulfonil-isocianato	2600	>5000	>20
64742-95-6	Aromatic Petroleum Hidrocarbon	>3492	>5000	>6193
95-63-6	1,2,4-trimethyl benzene	6000	>5000	>20

N.I. = No Information

**Toxicidad Dermal del producto:** 12,820.52 mg/kg

## 12. Ecological Information

**Toxicity:** No Information

**Persistence and Degradability:** No Information

**Bioaccumulative potential:** No Information

**Mobility in the soil:** No Information

**Other adverse effects:** No Information

## 13. Disposal Information

**DISPOSAL METHOD:** Prevent entry into waterways, sewers, basements or confined areas.

## 14. Transport Information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

#### Sea Transport

<b>UN Number:</b>	1263
<b>IMDG/GGVSee Class:</b>	3
<b>Packing Group:</b>	III
<b>Shipping Name:</b>	Paint or material related to paint
<b>Marine Pollutant:</b>	No

Shipping Hazard(Marine Pollutant): No Information

### Air Transport

UN Number: 1263  
 ICAO/IATA Class: 3  
 Packing Group: III  
 Shipping Name: Paint or material related to paint

## 15. Regulatory Information

No information available

## 16. Other Information

Revision Date: 16/7/2025 Supersedes Date: New MSDS  
 Reason for revision: No Information  
 Datasheet produced by: SUR Química S.A.

### Hazardous Material Information System: HMIS

Health	2	Flammability	3	Reactivity	1	Personal Protection	G	Chronic Hazard	No	Target Organ	N/A
--------	---	--------------	---	------------	---	---------------------	---	----------------	----	--------------	-----

### National Fire Protection Association: NFPA

Flammability	3	Health	2	Reactivity	1	Special Hazards	N/A
--------------	---	--------	---	------------	---	-----------------	-----

### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H303 May be harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H313 May be harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H320 Causes eye irritation  
 H330 Fatal if inhaled.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H402 Harmful to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

### Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02



GHS06



GHS07



GHS08



GHS09



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained in this safety sheet has been prepared for SUR QUIMICA S.A. based on the data provided by suppliers and manufacturers of the raw materials involved. This document is intended to be a guide for safe use according to use. The user receiving this information must be properly trained and be able to use his independent judgment to determine its applicability in particular uses. This safety data sheet (SDS) does not in any way exempt the user from knowing and complying with the good practices and rules of use applicable to their activity. The user must assume full responsibility to know and take precautions related to the use of the product. The exposure scenario is subject to revision and changes. The user must ensure that they have the latest version of the FDS. The updated versions are available on the website [www.gruposur.com](http://www.gruposur.com)