


SAFETY DATA SHEET

Section 1. Identification

Product identifier	: MALEIC ANHYDRIDE (molten) liquid
Material Number	: 00018961
Chemical name	: maleic anhydride
Chemical family	: Furan derivative
Identified uses	: Chemical industry
Supplier/Manufacturer	: LANXESS Corporation Product Safety & Regulatory Affairs 111 RIDC Park West Drive Pittsburgh, PA 15275-1112 USA
	For information: US/Canada (800) LANXESS International +1 412 809 1000
In case of emergency	: Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Physical state	: Liquid.
Color	: Colorless.
Classification of the substance or mixture	: ACUTE TOXICITY: ORAL - Category 4 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 RESPIRATORY SENSITIZATION. - Category 1 SKIN SENSITIZATION. - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [lungs] - Category 1
Hazard pictograms	: 
Signal word	: Danger
Hazard statements	: Harmful if swallowed. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes damage to organs. (lungs)
Hazard Not Otherwise Classified (HNOC)	: Causes digestive tract burns. Contact with hot material will cause thermal burns.
Precautionary statements	
Prevention	: Wear protective gloves/clothing and eye/face protection. In case of inadequate ventilation wear respiratory protection. Do not breathe vapor or spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazards identification

- Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Do not taste or swallow. Wash thoroughly after handling. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Corrosive to digestive tract

Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Chemical name** : maleic anhydride

Ingredient name	%	CAS number
Maleic Anhydride	95 - 100%	108-31-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Skin contact** : In case of contact, flush skin with plenty of water for at least 30 minutes. Cool melted product on skin with plenty of water. Do not remove solidified product. Call a physician immediately. Immediately remove contaminated clothing and shoes. Wash affected areas, including hair, beneath nails and other concealed areas with Polyethylene Glycol 400. Repeat the washing with soap and water.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

- Eye contact** : Causes serious eye damage.

Section 4. First aid measures

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction. Contact with hot material will cause thermal burns.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
wheezing and breathing difficulties
asthma
- Skin contact** : Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.
Symptoms include:
wheezing and breathing difficulties
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
- Ingestion** : Corrosive with symptoms of coughing, burning, ulceration, and pain.
Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

Causes damage to organs through prolonged or repeated exposure. Repeated and prolonged contact may cause an allergic respiratory reaction in sensitive individuals. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Potent skin sensitizer. Once sensitized, an individual may react to direct skin contact with reddening, swelling, rash and in severe cases blistering and hives. These symptoms may be immediate or delayed several hours. May cause asthma with symptoms of shortness of breath and tightness of chest. May cause pulmonary edema with symptoms of breathing difficulty and tightness of chest. Prolonged vapor contact may cause conjunctivitis. Repeated or prolonged eye contact may cause photophobia (sensitivity to light).

- Notes to physician** : Treat symptomatically. No specific treatment.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Carbon dioxide blanket, water spray, Water fog, alcohol-resistant foam
- Unsuitable extinguishing media** : dry chemical

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. This product is used in a molten state. Contact may cause thermal burns.

Conditions for safe storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container. Hot water or low pressure steam is required in handling molten maleic anhydride. The optimum temperature range of 131 - 140F (55 - 60C) can be maintained by the use of 30 psig steam on external heating coils. All vessels in this service should be equipped with a high temperature alarm. Provision should be made so that there is no possibility of high pressure steam being substituted accidentally. Storage tanks for molten maleic anhydride should be provided with a vertical steam coil or lance in addition to usual heating coils. The lance should extend vertically to the bottom of the tank for the purpose of melting a vent through the solid cake when remelting a solidified tank. Failure to do so could result in rupture of the tank from expansion of material around the coils. The storage tank should be equipped with a temperature indicator. Storage tank temperature should not exceed 212F (100C) since the product flash point is 215F (102C). Storage tanks should be electrically grounded.

Section 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Maleic Anhydride	ACGIH TLV (United States, 6/2013). Skin sensitizer. TWA: 0.01 mg/m ³ 8 hours. Form: Inhalable fraction and vapor OSHA PEL (United States, 2/2013). TWA: 0.25 ppm 8 hours. TWA: 1 mg/m ³ 8 hours.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure. Maintain levels below the recommended exposure limits.

Skin protection : Permeation resistant gloves. Recommended: Viton gloves. Polyvinyl chloride - PVC Heat resistant gloves.

Eye/face protection : When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state	: Liquid. [hot melt]
Color	: Colorless.
Odor	: Pungent smelling.
Odor threshold	: Not available.
pH	: [Conc. (% w/w): 55%]
Boiling point	: 200 °C (1013 hPa)
Melting point	: 53 to 58°C (127.4 to 136.4°F)
Flash point	: Closed cup: >93.3°C (>199.9°F)
Evaporation rate	: Not available.
Explosion limits	: Lower: 1.4% Upper: 7.1%
Vapor pressure	: 0.33 hPa (25°C) 4.4 hPa (59°C)
Density	: 1.48 g/cm ³ [20°C (68°F)]
Specific gravity (Relative density)	: 1.3

Section 9. Physical and chemical properties

Solubility	: 400 g/l (water)
Partition coefficient: n-octanol/water	: Not available.
Vapor density	: Not available.
Viscosity	: Not available.
Auto-ignition temperature	: 476.67°C (890°F)
Decomposition temperature	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Contact with alkali metals, caustics, and amines may cause polymerization if temperature is greater than 150F (66C).The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid	: Avoid contact with moisture / water.
Incompatible materials	: amines, alkalis Metal.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.Contact with hot material will cause thermal burns.
Ingestion	: Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma
Skin contact	: Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. Symptoms include: wheezing and breathing difficulties Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
Ingestion	: Corrosive with symptoms of coughing, burning, ulceration, and pain. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

Short term exposure

Potential immediate effects : Not available.

Long term exposure

Potential delayed effects : Not available.

Section 11. Toxicological information

- General** : Causes damage to organs through prolonged or repeated exposure. Repeated and prolonged contact may cause an allergic respiratory reaction in sensitive individuals. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Potent skin sensitizer. Once sensitized, an individual may react to direct skin contact with reddening, swelling, rash and in severe cases blistering and hives. These symptoms may be immediate or delayed several hours. May cause asthma with symptoms of shortness of breath and tightness of chest. May cause pulmonary edema with symptoms of breathing difficulty and tightness of chest. Prolonged vapor contact may cause conjunctivitis. Repeated or prolonged eye contact may cause photophobia (sensitivity to light).
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Maleic Anhydride	LD50 Oral	Rat - Male, Female	1090 mg/kg	-	OECD 401 Acute Oral Toxicity
Maleic Anhydride	LD50 Dermal	Rabbit - Female	2620 mg/kg	-	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Maleic Anhydride	Eyes - Cornea opacity	Rabbit	3.8	-	48 hours
	Eyes - Iris lesion	Rabbit	2	-	48 hours
	Eyes - Redness of the conjunctivae	Rabbit	2.5	-	48 hours
	Eyes - Edema of the conjunctivae	Rabbit	4	-	48 hours
	Skin - Edema	Rabbit	3.6	4 hours	7 days
	Skin - Edema	Rabbit	4	4 hours	7 days

Conclusion/Summary

Skin : Maleic Anhydride:corrosive

Eyes : Maleic Anhydride:corrosive

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Maleic Anhydride	Respiratory skin	Rat Guinea pig	Sensitizing Sensitizing

Chronic toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Maleic Anhydride	Chronic NOAEL Oral	Rat - Male, Female	10 mg/kg	2 years; 7 days per week
	Sub-chronic NOAEL Oral	Rat - Male	40 mg/kg	90 days; 7 days per week
	Sub-chronic NOAEC Inhalation Vapor	Rat - Male, Female	3.3 mg/m ³	6 months; 5 days per week
	Sub-acute NOAEC Inhalation Vapor	Rat - Male, Female	0.01 mg/l	1 months; 6 hours per day

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Maleic Anhydride	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Maleic Anhydride	Negative - Oral - TClO	Rat	>100 mg/kg NOEL	2 years; 7 days per week

Conclusion/Summary : Maleic Anhydride: No known significant effects or critical hazards.

Product/ingredient name	CAS #	IARC	NTP	OSHA
Maleic Anhydride	108-31-6	Not classified.	Not classified.	Not classified.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Species	Dose	Exposure
Maleic Anhydride		Rat - Male, Female	Oral: 55 mg/kg NOAEL	pre-mating; 7 days per week
		Rat - Male, Female	Oral: >140 mg/ kg NOAEL	Gestation; 7 days per week

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Maleic Anhydride	Negative - Oral	Rat - Female	-	15 days; 7 days per week

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Maleic Anhydride	Category 1	Not determined	lungs

Section 12. Ecological information

Toxicity

Section 12. Ecological information

Product/ingredient name	Test	Result	Species	Exposure
Maleic Anhydride	OECD 201 Alga, Growth Inhibition Test	IC10 11.8 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	DIN 38412 part 8 (growth rate)	Acute EC50 >44.6 mg/l	Bacteria - Pseudomonas putida	18 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 42.81 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	OECD 201 Alga, Growth Inhibition Test	Acute IC50 74.35 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	-	Acute LC50 75 mg/l	Fish - <i>Salmo gairdneri</i>	96 hours
	-	Chronic NOEC 10 mg/l	Daphnia - <i>Daphnia magna</i>	21 days

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Maleic Anhydride	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	>90 % - Readily - 25 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Maleic Anhydride	-	50%; 0.175 day(s)	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.



Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA classification : U147: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR 261.20-24) Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product, should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN2215	MALEIC ANHYDRIDE, MOLTEN	8	III		IB8, IP3, T4, TP1, T1
IMDG Class	UN2215	MALEIC ANHYDRIDE, MOLTEN	8	III		Emergency schedules (EmS) F-A, S-B
IATA-DGR Class	-	-	-	-		Forbidden

PG* : Packing group

RQ : 5011 lbs

Section 15. Regulatory information

SARA 311/312 : Immediate (acute) health hazard

SARA Title III Section 302 Extremely Hazardous Substances : None

	<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
SARA Title III Section 313 Toxic Chemicals	: Maleic Anhydride	108-31-6	95 - 100%

	<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>
US EPA CERCLA Hazardous Substances (40 CFR 302)	: Maleic Anhydride	108-31-6	5000 lbs. (2270 kg)

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Maleic Anhydride	108-31-6	MA - S, NJ - HS, PA - RTK HS	95 - 100%

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

Section 16. Other information

Hazardous Material Information System

Health	*	3
Flammability		1
Physical hazards		1

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Product Safety and Regulatory Affairs

▣ Indicates information that has changed from previously issued version.

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