SAFETY DATA SHEET

Section 1. Identification

Product identifier : Preventol DP 1021

Material Number : 57534495

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 : Clear to yellow

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 3
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION. - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (digestive system and respiratory tract) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.2%

Hazard pictograms :

Signal word : Danger

Hazard statements : Toxic if inhaled. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes damage to organs. (digestive system, respiratory tract)

Hazard Not Otherwise Classified (HNOC) : None known.

Precautionary statements

Prevention : Wear protective gloves/clothing and eye/face protection. Use only in a well-ventilated area. Do not breathe vapor. 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 : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
1,3-Propanediol, 2-bromo-2-nitro- dodecylguanidine monohydrochloride	10 - ≤25 10 - ≤25	52-51-7 13590-97-1

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 case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical 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. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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 : Toxic if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

Inhalation : No specific data.

Skin contact : Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.
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

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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 : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

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
nitrogen oxides
halogenated compounds

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.

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.

Section 6. Accidental release measures

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 : 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. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.

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.

Section 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
1,3-Propanediol, 2-bromo-2-nitro-	None
dodecylguanidine monohydrochloride	None

Appropriate engineering controls : Use only with adequate ventilation. 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 : NIOSH approved, air-purifying respirator with organic vapor cartridges and N-95 filters For emergency and other conditions where the exposure limits may be greatly exceeded, use an approved, positive pressure self-contained breathing apparatus or supplied air. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Section 8. Exposure controls/personal protection

Skin protection : Permeation resistant clothing and foot protection. Permeation resistant gloves.

Eye/face protection : chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. If contact with product is possible, wear safety glasses with side shields.

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state : Liquid.

Color : Clear to yellow

Odor : Odorless.

Odor threshold : Not available.

pH : 4.5

Boiling point : Not available.

Melting point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Explosion limits : Not available.

Vapor pressure : Not available.

Specific gravity (Relative density) : 1.18

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not available.

Vapor density : Not available.

Viscosity : Not available.

Auto-ignition temperature : Not available.

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 : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

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 : Toxic if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

Section 11. Toxicological information

Inhalation : No specific data.

Skin contact : Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.
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.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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
Preventol DP 1021	LD50 Oral	Rat - Female	1098 mg/kg	-	-
Preventol DP 1021	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	-
Preventol DP 1021	LC50 Inhalation Dusts and mists	Rat - Female	0.82 mg/l	4 hours	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
1,3-Propanediol, 2-bromo-2-nitro-	Skin - Irritant	Rabbit	-	4 hours	14 days	-

Conclusion/Summary

Skin : Corrosive

Eyes : 1,3-Propanediol, 2-bromo-2-nitro-:Risk of serious damage to eyes. (Rabbit)
dodecylguanidine monohydrochloride:Risk of serious damage to eyes.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Preventol DP 1021	skin	Mouse	Sensitizing

Chronic toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
1,3-Propanediol, 2-bromo-2-nitro-	Sub-chronic NOAEL Oral	Rat - Male, Female	25 mg/kg/d	90 days
	Chronic LOAEL Oral	Rat - Male, Female	32 mg/kg/d	104 weeks; 7 days per week
	Sub-chronic LOAEL Oral	Rat - Male, Female	20 mg/kg/d	13 weeks; 7 days per week

Mutagenicity

Product/ingredient name	Test	Experiment	Result
1,3-Propanediol, 2-bromo-2-nitro-	OECD 473 *In vitro* Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human Cell: Somatic Metabolic activation: with/without S9mix	Positive
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: with/without S9mix	Negative
	Mammalian cell gene mutation assay	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: with/without S9mix	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 486 Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells *in vivo*	Experiment: In vivo Subject: Mammalian-Animal	Negative

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
1,3-Propanediol, 2-bromo-2-nitro-	Negative - Unreported -	Rat	-	-
	Negative - Oral - NOAEL	Rat - Male, Female	7 mg/kg bw/day	104 weeks; daily
	Negative - Dermal -	Mouse - Male, Female	-	80 weeks; 3 days per week

Product/ingredient name	CAS #	IARC	NTP	OSHA
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7	Not classified.	Not classified.	Not classified.
dodecylguanidine monohydrochloride	13590-97-1	Not classified.	Not classified.	Not classified.

Reproductive toxicity

Product/ingredient name	Effects	Species	Dose	Exposure
1,3-Propanediol, 2-bromo-2-nitro-	NOAEL: P , F1	Rat - Male, Female	Oral: >40 mg/kg bw/day	19 weeks; daily
	NOAEL: Parental systemic toxicity	Rat - Male, Female	Oral: 25 mg/kg bw/day	6 weeks; Continuous
	NOAEL: P	Rat - Male, Female	Oral: 70 mg/kg bw/day	6 weeks; Continuous
	NOAEL: F1, F2	Rat - Male, Female	Oral: 200 mg/kg bw/	6 weeks; Continuous

Section 11. Toxicological information

			day	
	NOAEL: Teratogenicity, EmbryoToxicity	Rat - Female	Oral: 100 mg/kg bw/ day	15 days; daily
	LOAEL: Maternal toxicity	Rat - Female	Oral: 30 mg/kg bw/ day	15 days; daily
	NOAEL: Maternal toxicity	Rat - Female	Oral: 10 mg/kg bw/ day	15 days; daily
	NOAEL / LOAEL: Maternal toxicity, Teratogenicity	Rat - Female	Oral: 80 mg/kg bw/ day	15 days; daily

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Preventol DP 1021	Category 1	Not determined	digestive system and respiratory tract
1,3-Propanediol, 2-bromo-2-nitro-	Category 3	Not applicable.	Respiratory tract irritation

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Not available.	

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
1,3-Propanediol, 2-bromo-2-nitro-	OECD 201 Alga, Growth Inhibition Test	Acute EC50 0.37 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	OECD 202 *Daphnia* sp. Acute Immobilization Test	Acute EC50 1.4 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	EPA EPA OPP 72-1 (Fish Acute Toxicity Test)	Acute LC50 35.7 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	OECD 211 *Daphnia Magna* Reproduction Test	Chronic EC50 0.27 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC 0.1 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	OECD 210 Fish, Early-Life Stage Toxicity Test	Chronic NOEC 21.5 mg/l Fresh water	Fish - Oncorhynchus mykiss	49 days
dodecylguanidine monohydrochloride	OECD 202 *Daphnia* sp. Acute Immobilization Test	Acute LC50 0.09 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 2 mg/l	Fish - Lepomis macrochirus	96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
1,3-Propanediol, 2-bromo-2-nitro-	OECD 301B Ready Biodegradability - CO_2 Evolution Test	70 to 80 % - Readily - 28 days	-	-
dodecylguanidine monohydrochloride	OECD 301E Ready Biodegradability - Modified OECD Screening Test	>70 % - Readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
dodecylguanidine monohydrochloride	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
1,3-Propanediol, 2-bromo-2-nitro-	0.22	-	low

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 : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, 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	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE, BRONOPOL)	8	II		B2, IB2, T11, TP2, TP27

Section 14. Transport information

IMDG Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE, BRONOPOL)	8	II		**Emergency schedules (EmS)** F-A, S-B
IATA-DGR Class	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE, BRONOPOL)	8	II		**Passenger aircraft** 851: 1 L **Cargo aircraft** 855: 30 L

PG* : Packing group

RQ : 0 lbs

Section 15. Regulatory information

SARA 311/312 : Immediate (acute) health hazard

SARA Title III Section 302 Extremely Hazardous Substances : None

SARA Title III Section 313 Toxic Chemicals : None

US EPA CERCLA Hazardous Subtances (40 CFR 302.4) : None

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 appropraite agency in your state.

Ingredient name	CAS number	State Code	Concentration (%)
Propylene glycol	57-55-6	NJ - HS, PA - RTK HS	≤10
Dipropylene Glycol	25265-71-8	PA - RTK HS	≤10
Polyethylene Glycol	25322-68-3		25 - 50
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7		10 - ≤25
Water	7732-18-5		10 - ≤25
dodecylguanidine monohydrochloride	13590-97-1		10 - ≤25

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	0

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

Our method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided 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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