



Prepared according to Annex II of EC Regulation 1907/2006.

1	Substance/Product Identification
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Product Trade Name **CONTRAM(TM) NBF-34**

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CAS Number Not applicable for mixtures.

Synonyms None.

Preparation/Revision Date 26 October 2007

Generic Chemical Name Mixture.

Product Type Biocide

Emergency Phone Number +44 (0)208 762 8322

MSDS No. 25191067-1422820-2115770-811103

2	Hazards Identification
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Symbol(s)



Product Classification R22 -- Harmful if swallowed.
R43 -- May cause sensitisation by skin contact.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	Percentage (by wt.)	Symbol(s)	Risk Phrase(s)	EU Number
Diethylene glycol	From 20 to 29.9 percent	Xn	R22	203-872-2
Magnesium nitrate	0.5 to 1.5 percent	Xi	R36/38	233-826-7
Chloromethyl isothiazolinone	0.5 to 1.5 percent	N T	R23/24/25 R34 R43 R50/53	247-500-7 + 220-239-6

4	First Aid Measures
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Ingestion DO NOT INDUCE VOMITING. Get immediate medical attention to perform gastric lavage. Call a poison center or doctor if exposed or you feel unwell.

Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

	to do. Continue rinsing. Immediately call a poison center or doctor.
Skin	Wash with plenty of soap and water. Immediately remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse and discard leather articles saturated with the material.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
Additional Information	Get medical attention advice if you feel unwell.

5	Fire Fighting Measures
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Flash Point	100 °C, 212 °F PMCC (Typical)
Extinguishing Media	CO2, dry chemical, foam, water spray, water fog.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may be ineffective fighting fires.
Unusual Fire & Explosion Hazards	Material will not burn. Container may rupture on heating.

6	Accidental Release Measures
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Do not dispose in landfill. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
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7	Handling and Storage
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Pumping Temperature	Not Determined.
Maximum Handling Temperature	Not Determined.
Handling Procedures	Avoid inhalation of vapors upon opening container. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Do not breath dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature	Not Determined.
Storage Procedures	Store in well ventilated place. Keep container tightly closed.
Loading Temperature	Not Determined.

8	Exposure Controls/Personal Protection
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Exposure Limits	EU Not applicable.
	UK Not applicable.

Ireland

Comp	CAS No.	Long Term (8 Hours T.W.A.)	Short Term (15 mins.)
Diethylene glycol	111-46-6	23 ppm	N/E

India

Not applicable.

Cyprus

Not applicable.

- (s) - Skin exposure
- (p) - Proposed limit
- (c) - Ceiling exposure
- (l) - Recommended exposure limit
- (u) - Supplier recommended exposure limit
- (N/E) - None established

Other Exposure Limits

None known.

Engineering Controls

Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Hand Protection

Butyl rubber.

Eye Protection

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Respiratory Protection

Use full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Clothing Recommendation

Wear a chemically protective apron when contact with material may occur. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

9	Physical and Chemical Properties
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Flash Point	100 °C, 212 °F PMCC (Typical)
Upper Flammable Limit	Not Determined.
Lower Flammable Limit	Not Determined.
Autoignition Point	Not Determined.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not Determined.
pH	Not Determined.
Specific Gravity	1.05 (20 °C)
Bulk Density	Not Determined.
Water Solubility	Soluble.
Percent Solid	Not Determined.
Percent Volatile	Unknown.
Volatile Organic Compound	Not Determined.
Vapour Density	Not Determined.
Evaporation Rate	Not Determined.
Odour	Characteristic
Appearance	Yellowish liquid.
Viscosity	Unknown.

Odour Threshold	Unknown.
Boiling Point	Not Determined.
Pour Point Temperature	Not Determined.
Melting / Freezing Point	Not Determined.

The above data are typical values and do not constitute a specification.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not Determined.
Incompatibility	Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11	Toxicological Information
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-- ACUTE EXPOSURE --

Eye Irritation	Corrosive to eyes. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on actual data.
Respiratory Irritation	May cause nose, throat and lung irritation. Based on data from components or similar materials.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Not expected to be rapidly absorbed through skin. Based on actual data.
Inhalation Toxicity	The following estimated LC 50 is based on incomplete information on components. Not expected to be a toxic inhalation hazard. Based on data available from components or similar materials. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.
Oral Toxicity	The LD50 in rats is between 2000 mg/kg and 5000 mg/kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. The oral toxicity of diethylene glycol is expected to be moderate in humans even though tests with animals show a lower degree of toxicity.
Dermal Sensitization	Skin sensitizer. Based on data from components or similar materials.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Prolonged and repeated overexposure to diethylene glycol may cause severe kidney, liver and gastrointestinal effects.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
Other	Trace quantities of ethylene oxide (ETO) may be present which may accumulate in the headspace of storage vessels. Exposure via this source to ETO is not expected to exceed the OSHA PEL of 1 ppm.

12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	The acute LC50 is 10 - 100 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is 1 - 10 mg/L based on component data.
Algae Toxicity	The acute EC50 is 1 - 10 mg/L based on component data.
Saltwater Fish Toxicity	Not Determined.
Saltwater Invertebrates Toxicity	Not Determined.
Bacteria Toxicity	The acute EC50 is 10 - 100 ppm based on component data.
Miscellaneous Toxicity	Not Determined.

-- ENVIRONMENTAL FATE --

Biodegradation	At least 75% of the components in this product show rapid biodegradation based on OECD 301-type test data. At least 75% of the components in this product show rapid biodegradation based on OECD 302-type test data.
Bioaccumulation	25% or greater of the components will not bioconcentrate, based on actual data.
Soil Mobility	Not Determined.
WGK	WGK = 2 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

13	Disposal Considerations
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Waste Disposal	This material, if discarded, should be considered a European hazardous waste in accordance with European Law. H5, H8.
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14	Transport Information
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ICAO/IATA (International)	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
IMO Marine Vessel	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
USCG Compatibility	Not Determined.
ADR/RID	Not regulated
ADR/RID Hazard ID No.	Not applicable.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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Symbol(s)



Indication of Danger

Harmful

Precautionary Labels R22 -- Harmful if swallowed.
 R43 -- May cause sensitisation by skin contact.
 S26 -- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28 -- After contact with skin, wash immediately with plenty of water.
 S37/39 -- Wear suitable gloves and eye/face protection

Other Label Information None.

-- Global Chemical Inventories --

USA This product contains a component that is regulated under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) when it is used as a biocide. All other components of this product are on the US TSCA Inventory.

EU All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.

Japan All components are in compliance with the Chemical Substances Control Law of Japan.

Australia All components are in compliance with chemical notification requirements in Australia.

Canada This product contains a component that is regulated under the Pest Control Products Act (PCPA) when it is used as a biocide. All other components of this product are on the Domestic Substances List.

Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Korea All components are in compliance in Korea.

Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

China All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Product Registrations --

Finnish Registration Number Not Registered

Swedish Registration Number Not Registered

Norwegian Registration Number Not Registered

Danish Registration Number Not Registered

Swiss Registration Number Not Registered

Italian Registration Number Not Registered

Korean Registration Number This product is registered in Korea with the Ministry of the Environment.

U.S. Dept of Agriculture NSF Nonfood Compounds Registration This product has not been filed with the USDA to support H2 approvals.
 This product has not been filed with the NSF to support H1 or H2 approvals.

-- Other / International --

U.S. Tariff Heading Number Not Determined.

Schedule B Number Not Determined.

FDA Approval Not applicable.

16	Other Information
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HMIS Codes

Health	Fire	Reactivity
3*	1	0

Relevant R Phrases

R22 -- Harmful if swallowed.
 R23/24/25 -- Toxic by inhalation, in contact with skin and if swallowed.
 R34 -- Causes burns.
 R36/38 -- Irritating to eyes and skin.
 R43 -- May cause sensitisation by skin contact.
 R50/53 -- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision Indicators

Section	Changed
1 PRODUCT TYPE	26 October 2007
3 EU HAZARDOUS INGREDIENTS	26 October 2007
4 ORAL FIRST AID	26 October 2007
6 SPILL PROCEDURES	26 October 2007
7 HANDLING PROCEDURES	26 October 2007
11 EYE IRRITATION	26 October 2007

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