

Material Safety Data Sheet

Klenz-R

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Klenz-R

Norac Concepts Inc.
P.O. Box 31097, Guelph, ON N1H 8K1
519-821-3633

Emergency telephone number: All hours, 613-787-5620, **ONLY** for health and environmental information.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients	% (w/w)	ACGIH TLV	CAS No.
Ammonia	6.0	25 ppm	7664-41-7

Synonyms: None known.

Chemical name: Ammonia-based cleaner.

Product use: Agricultural spray tank cleaner.

3. HAZARDS IDENTIFICATION

Summary: Hazardous properties of all ingredients have been considered in the preparation of this MSDS. Read the entire MSDS for the complete hazard evaluation of this product.

Emergency overview: May cause severe irritation to the eyes. May be irritating to the skin and respiratory system. Harmful if swallowed or inhaled.

4. FIRST AID MEASURES

Inhalation: Move victim to fresh air. Give artificial respiration **ONLY** if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing **AND** no pulse. Obtain medical advice **IMMEDIATELY**.

Skin contact: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention **IMMEDIATELY**.

Eye contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention **IMMEDIATELY**.

Ingestion: If victim is alert and not convulsing, rinse mouth out and give 200-300 mL (1 cup) of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention **IMMEDIATELY**.

5. FIRE AND EXPLOSION HAZARD DATA

Flash point: > 93.3°C.

Autoignition temperature: Not determined.

Flammable limits (lower): No data.

Flammable limits (upper): No data.

Extinguishing media: For large fires, apply aqueous film forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical.

Fire fighting procedures: Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking. Use water spray to cool fire-exposed product containers.

Other fire and explosion hazards: Ammonia gas will be liberated if heated and, upon combustion, oxides of nitrogen will be produced. Vapours may explode at high temperatures if exposed to an ignition source.

6. ACCIDENTAL RELEASE MEASURES

Spills, leaks or releases: Wear personal protective equipment. For release to land, stop any further release and spread of contamination and absorb spilled material with a suitable absorbent. Wash hard surfaces with detergent and water, then absorb with suitable absorbent. For release to water, stop any further release and utilize damming and/or water diversion to minimize the spread of contamination. Collect the spilled material, any contaminated soil, water and absorbent, then place in a waste container for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Deactivating chemicals: Neutralize with lime slurry, limestone or soda ash.

7. HANDLING AND STORAGE INFORMATION

Handling procedures: Use only with adequate ventilation and avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

Storage requirements: Store in a cool, dry and well-ventilated area. Keep away from heat and ignition sources. Keep containers closed. Keep out of reach of children and pets.

Storage temperature: Do not expose product to temperatures above 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection: Chemical safety goggles when there is potential for eye contact.

Skin protection: Chemical resistant gloves and protective clothing should be impervious under conditions of use.

Respiratory protection: NIOSH/MSHA-approved respirator, if required. For levels up to 10 times the TLV.

Other protective equipment: Eye wash station.

Engineering controls: Provide local exhaust or ventilation when sprayed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear brown viscous liquid.

Odour: Ammonia odour.

Specific gravity: 1.01.

Boiling point: Not determined.

Melting point: Not determined.

Solubility (water): Soluble.

Solubility (other): No data.

pH: 10.2.

% volatile: Not available.

Evaporation rate (Ether=1): Not determined.

Vapour pressure (mm Hg at 20°C): No data.

Vapour density (air=1): 0.6 (for ammonia).

10. STABILITY AND REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: High temperatures, sparks and sources of ignition. Heat decomposes ammonia solutions and liberates ammonia gas.

Incompatibility with other substances: Mineral acids, alkalis, halogens, strong oxidizing agents and reducing agents.

Hazardous decomposition products: Thermal decomposition may produce noxious fumes, which include oxides of nitrogen, carbon and sulphur.

11. TOXICOLOGICAL INFORMATION

Summary: May cause severe irritation to the eyes. May be irritating to the skin and respiratory system. Harmful if swallowed or inhaled.

Toxicological data

Ammonia

Oral LD₅₀ (rat) = 350 mg/kg

Inhalation LC₅₀ (mouse) = 4230 ppm/hr

Inhalation: Highly irritating at levels above 400 ppm and may result in coughing, chest pain, pulmonary oedema, and bronchospasm. Note: Under normal conditions and use, the level of ammonia is well below 400 ppm.

Skin contact: May cause skin irritation. May cause blisters with prolonged or repeated contact. Symptoms may be delayed.

Eye contact: Causes severe irritation to the eyes. May cause ulceration of the eyes.

Ingestion: Irritation to the mouth, throat and stomach. May cause nausea, vomiting, diarrhoea and abdominal discomfort or ulceration.

Chronic effects: Repeated contact with the skin may cause dermatitis. May aggravate existing skin and lung conditions.

Carcinogenicity: The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and the NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Not determined.

Environmental effects: Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Persistence and degradation: Not known.

13. DISPOSAL CONSIDERATIONS

Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

14. TRANSPORT INFORMATION

TDG classification: Not regulated.

Transportation emergency telephone number: 613-787-5620.

15. REGULATORY INFORMATION

WHMIS classification: D2B.

16. OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Norac Concepts Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This material safety data sheet is valid for three years.

Prepared by: Norac Concepts Inc.