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Material Safety Data Sheet

Potassium bicarbonate technical

WHMIS Protective Clothing TDG







1. Product and company identification

Product name : Potassium bicarbonate technical

Supplier: Groupe Horticole Ledoux inc.

785 rue Paul-Lussier

Ste-Hélène-de-bagot, Quebec Canada J0H1M0

Tel: 450-791-2222

Synonym: Potassium hydrogen carbonate

Material uses: Industrial applicationsCode: 100-01020020

Validation date : 30/07/2016.

In case of emergency : EMERGENCY TELEPHONE: IN CANADA - CALL 1-800-567-7455

2. Hazards identification

Physical state : Solid. [Powder or granules.]

Odor : Odourless.

Emergency overview: MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.

Slightly irritating to the eyes and respiratory system. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Avoid breathing dust. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly

after handling.

Routes of entry : Inhalation. Ingestion.

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system.

Ingestion: No known significant effects or critical hazards. **Skin**: No known

significant effects or critical hazards.

Eyes : Slightly irritating to the eyes.

Potential chronic health effects

Chronic effects : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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.

Target organs : Not available.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

2. Hazards identification

Ingestion : No specific data. : Skin No specific data.

Eyes : Adverse symptoms may include the following: irritation

watering redness

: None known.

Medical conditions aggravated by overexposure

See toxicological information (section 11)

3. Composition/information on ingredients

Name	CAS number	%
potassium acid carbonate	298-14-6	60 - 100

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 or the environment and hence require reporting in this section.

4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire. None

Not suitable : known.

Special exposure hazards: 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.

Hazardous thermal : Decomposition products may include the following materials:

decomposition products carbon dioxide carbon monoxide metal oxide/oxides

Special protective Fire-fighters should wear appropriate protective equipment and self-contained breathing

equipment for fire-fighters : apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

Personal precautions

- : 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. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

Methods for cleaning up

Spill or leak

and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. 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.

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 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.

Exposure controls/personal protection

Product name

Exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: 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.

Engineering measures

- : 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.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Exposure controls/personal protection

: Safety eyewear complying with an approved standard should be used when a risk **Eyes**

> assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust

goggles. Recommended: safety glasses with side-shields

Skin : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product. Recommended: lab coat

Environmental exposure : Emissions from ventilation or work process equipment should be checked to ensure they controls comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Physical and chemical properties

Physical state : Solid. [Powder or granules.] :

Color White. Odor : Odourless. Molecular weight : 100.11 g/mole

Molecular formula : KHCO3

Melting/freezing : Decomposition temperature: 100°C (212°F) point

: 2.17 Relative density

: Soluble in the following materials: cold water. Solubility

10. Stability and reactivity

: The product is stable. Stability

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Materials to avoid : Reacts with acids. Reacts violently with ammonium phosphate.

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

11. Toxicological information

Acute toxicity Species Dose Exposure Rat >2000

mg/kg -Product/ingredient name Result potassium acid

LD50 Oral Conclusion/Summary carbonate : Not

available.

12. Ecological information

Environmental effects : Not available.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Waste and empty packaging must be disposed of in accordance with federal, provincial, and municipal environmental control regulations.

13. Disposal considerations

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory UN number Proper shipping Classes PG* Label Additional information name information

TDG Classification Not - -

regulated.

PG*: Packing group

15. Regulatory information

WHMIS (Canada) : Not controlled under WHMIS (Canada). Canada

inventory: All ingredients are listed or exempted.

16. Other information

Additional information : This product has been classified in accordance with the hazard criteria of the

Controlled Products Regulations (CPR) and the MSDS contains all the information

required by the CPR.

Other special: No additional remark. considerations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.