Material Safety Data Sheet



DAP (100% SOLUBLE)

WHMIS Protective Clothing TDG







Product and company identification

Product name : DAP (100% SOLUBLE)

Supplier: QUADRA CHEMICALS LTD.

3901 F.X. Tessier

Vaudreuil-Dorion, Quebec

Canada J7V 5V5 Tel: 1-800-665-6553

Material uses : Industrial applications.

 Code
 : Q00064

 Validation date
 : 23/03/2016.

Responsible name : Regulatory Affaires réglementaires

In case of emergency : TRANSPORTATION EMERGENCY - 24HRS/DAY - 7 DAYS/WEEK

IN CANADA - CALL 1-800-567-7455

2. Hazards identification

Physical state : Solid. [Crystals.]

Odor : Odorless.

Emergency overview

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Slightly irritating to the eyes, skin 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. Avoid prolonged or repeated contact with skin. 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. Exposure to decomposition products may

cause a health hazard. Serious effects may be delayed following exposure.

Ingestion : No known significant effects or critical hazards.

SkinSlightly irritating to the skin.EyesSlightly 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.

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

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2. Hazards identification

Ingestion

: No specific data.

Skin

: Adverse symptoms may include the following:

irritation redness

Eyes

: Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by overexposure : None known.

See toxicological information (section 11)

3. Composition/information on ingredients

NameCAS number%diammonium phosphate7783-28-060 - 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

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.

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.

Not suitable

None 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

 Decomposition products may include the following materials: nitrogen oxides

phosphorus oxides

ammonia

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.

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

Methods for cleaning up

Spill or leak

: 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.

7. 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.

8. 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.

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Exposure controls/personal protection 8.

Eyes

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

: Personal protective equipment for the body should be selected based on the task being Skin performed and the risks involved and should be approved by a specialist before handling

this product.

Recommended: lab coat

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they 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 9.

: Solid. [Crystals.] **Physical state**

White. Color : Odorless. Odor : 132.07 g/mole Molecular weight Molecular formula : (NH₄)₂ HPO₄

Boiling/condensation point : Decomposition temperature: 150°C (302°F)

: 1.62 Relative density

Vapor pressure : 0.000076 kPa (0.00057 mm Hg) @ 20°C

Solubility : Easily soluble in the following materials: cold water.

: 1.619 g/cm³ [20°C (68°F)] **Density**

10. Stability and reactivity

Stability : The product is stable.

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

Conditions to avoid : No specific data.

Materials to avoid acids

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

not be produced.

11. Toxicological information

Acute toxicity

Product/ingredient name Result **Species Dose Exposure**

Not available.

Conclusion/Summary : Not available.

12. Ecological information

: Not available. **Environmental effects**

Aquatic ecotoxicity

Product/ingredient name **Exposure** Test Result Species DAP (100% SOLUBLE) Acute EC50 1790 Daphnia -72 hours

mg/L Daphnia carinata

Acute LC50 1700 Fish 96 hours

mg/L

Conclusion/Summary Not available. DAP (100% SOLUBLE) Page: 5/5

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.

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 information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-

PG* : Packing group

15. Regulatory information

WHMIS (Canada)Canada inventoryIn Not controlled under WHMIS (Canada).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 considerations

: No additional remark.

Regulatory Affairs Department: 1 800 665-6553

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.