Intermediate GHS-ANSI Format. This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1. - Canada

# Safety Data Sheet

**Mini Prill Feed Grade Urea**

## 1. Product and company identification

| | | |
|---|---|---|
| **Product name** | : | Mini Prill Feed Grade Urea |
| **Synonym** | : | UREA |
| **Product type** | : | Solid |
| **Code** | : | PA38UF |

**Uses**

| | | |
|---|---|---|
| **Area of application** | : | Professional applications |
| **Material uses** | : | Fertilizers. |

**Supplier**

| | | |
|---|---|---|
| **Supplier's details** | | Yara Canada Inc. |

**Address**

| | | |
|---|---|---|
| **Street** | : | 1130 Sherbrooke Street West |
| **Number** | : | Suite 1120 |
| **Postal code** | : | H3A 2M8 |
| **City** | : | Montreal |
| **Country** | : | Canada |
| **Telephone number** | : | +1 514 849 9222 |
| **Fax no.** | : | +1 514 849 3362 |
| **e-mail address of person responsible for this SDS** | : | Rebecca.lee@yara.com |
| **Emergency telephone number (with hours of operation)** | : | 24 Hour Emergency Service, (Canutec 613-996-6666) |

**National advisory body/Poison Center**

| | | |
|---|---|---|
| **Name** | : | Poisons and Drug Information Service |
| **Telephone number** | : | +1 403 944 1414, (800) 332 1414 (Alberta only) |
| **Validation date** | : | 06/25/2014 |
| **Print date** | : | 06/26/2014 |

## 2. Hazards identification

**Emergency overview**

| | | |
|---|---|---|
| **Physical state** | : | Solid |
| **Color** | : | White. |
| **Odor** | : | Odorless. |
| **Hazard statements** | : | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE |

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : Not applicable.

**Potential acute health effects**

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

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

**Eyes** : No known significant effects or critical hazards.

**Potential chronic health effects**

**Chronic effects** : No known significant effects or critical hazards.

**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.

**Over-exposure signs/symptoms**

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin** : No specific data.

**Eyes** : No specific data.

**Medical conditions aggravated by over-exposure** : None known.

**See toxicological information (section 11)**

## 3. Composition/information on ingredients

**There are no 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** : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Skin contact** : Wash with soap and water. Get medical attention if irritation develops.

**Inhalation** : If inhaled, remove to fresh air. Get medical attention if symptoms occur. 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.

**Ingestion** : Wash out mouth with water. 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. Get medical attention if adverse health effects persist or are severe.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable

training.

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 identified.

**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:
carbon dioxide
carbon monoxide
nitrogen oxides
Avoid breathing dusts, vapors or fumes from burning materials.
In case of inhalation of decomposition products in a fire, symptoms may be delayed.
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.

**Special remarks on fire hazards** : Non-flammable.

**Special remarks on explosion hazards** : None.

## 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. 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**

**Small spill** : 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.

**Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

**Handling** : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**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.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**No exposure standard allocated.**

**Consult local authorities for acceptable exposure limits.**

**Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

**Personal protection**

**Respiratory** : Use a properly fitted, particulate filter 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.

**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.

**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.

**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.

## 9. Physical and chemical properties

**Physical state** : Solid

**Flash point** : Not applicable

| | | |
|---|---|---|
| **Burning time** | : | Not determined. |
| **Burning rate** | : | Not determined. |
| **Auto-ignition temperature** | : | Not determined. |
| **Flammable limits** | : | **Lower:** Not determined.<br>**Upper:** Not determined. |
| **Explosive properties** | : | Non-explosive in the presence<br>None. |
| **Oxidizing properties** | : | None. |
| **Color** | : | White. |
| **Odor** | : | Odorless. |
| **Molecular formula** | : | CH4N2O |
| **pH** | : | 7.2 [Conc.: 100 g/l] |
| **Boiling/condensation point** | : | Not determined. |
| **Sublimation temperature** | : | Not determined. |
| **Melting/freezing point** | : | 134 °C (273 °F) |
| **Density** | : | 1.33 g/cm3 @ 20 °C (68 °F) |
| **Relative density** | : | Not determined. |
| **Vapor pressure** | : | 0.000016 hPa @ 20 °C (68 °F) |
| **Odor threshold** | : | Not determined. |
| **Evaporation rate** | : | Not determined. |
| **Viscosity** | : | **Dynamic:** Not determined. |
| | : | **Kinematic:** Not determined. |
| **Solubility** | : | Easily soluble in the following materials:<br>cold water |
| **Solubility in water** | : | > 100 g/l |

## 10. Stability and reactivity

| | | |
|---|---|---|
| **Chemical stability** | : | The product is stable. |
| **Conditions to avoid** | : | Avoid contamination by any source including metals, dust and organic materials. |
| **Incompatible materials** | : | Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. |
| **Remark** | : | acids<br>alkalis<br>Nitrites and nitrates |
| **Hazardous decomposition products** | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| **Possibility of hazardous reactions** | : | Under normal conditions of storage and use, hazardous reactions will not occur. |

## 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

| | | |
|---|---|---|
| **Conclusion/Summary** | : | No known significant effects or critical hazards. |

**Chronic toxicity**

**Conclusion/Summary** : Not toxic.

**Irritation/Corrosion**

**Conclusion/Summary**

**Skin** : Non-irritating.
**Eyes** : Non-irritating.
**Respiratory** : Non-irritating.

**Sensitization**

**Conclusion/Summary**

**Skin** : Not sensitizing
**Respiratory** : Not sensitizing

**Carcinogenicity**

**Conclusion/Summary** : No carcinogenic effect.

**Mutagenicity**

**Conclusion/Summary** : No mutagenic effect.

**Teratogenicity**

**Conclusion/Summary** : No teratogenic effect.

**Reproductive toxicity**

**Conclusion/Summary** : Not considered to be toxic to the reproductive system.

**IDLH** : No data available.

## 12.Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

**Aquatic ecotoxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Persistence/degradability**

**Conclusion/Summary** : Readily biodegradable in plants and soils. The product does not show any bioaccumulation phenomena.

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

**Mobility** : This product may move with surface or groundwater flows because its water solubility is: high

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Product**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not

feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and 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

| **Regulation: UN Class** | |
|---|---|
| **14.1 UN number** | Not regulated. |
| **14.2 UN proper shipping name** | |
| **14.3 Transport hazard class(es)** | |
| **14.4 Packing group** | |
| **14.5 Environmental hazards** | No. |
| **Additional information** | **: UN Class** |
| **Environmental hazards** | **:** No. |

| **Regulation: IMDG** | |
|---|---|
| **14.1 UN number** | Not regulated. |
| **14.2 UN proper shipping name** | |
| **14.3 Transport hazard class(es)** | |
| **14.4 Packing group** | |
| **14.5 Environmental hazards** | No. |
| **14.6 Additional information** | **: IMDG** |
| **Marine pollutant** | **:** No. |

| **Regulation: IATA** | |
|---|---|
| **14.1 UN number** | Not regulated. |
| **14.2 UN proper shipping name** | |
| **14.3 Transport hazard class(es)** | |
| **14.4 Packing group** | |
| **14.5 Environmental hazards** | No. |
| **14.6 Additional information** | **: IATA** |
| **Marine pollutant** | **:** No. |

| **Regulation: DOT Classification** | |
|---|---|
| **14.1 UN number** | Not regulated. |
| **14.2 UN proper shipping name** | |
| **14.3 Transport hazard class(es)** | |
| **14.4 Packing group** | |
| **14.5 Environmental hazards** | No. |
| **14.6 Additional information** | **: DOT Classification** |
| **Environmental hazards** | **:** No. |

| Regulation: TDG Class | |
|---|---|
| **14.1 UN number** | Not regulated. |
| **14.2 UN proper shipping name** | |
| **14.3 Transport hazard class(es)** | |
| **14.4 Packing group** | |
| **14.5 Environmental hazards** | No. |
| **14.6 Additional information** | **: TDG Class** |
| **Environmental hazards** | **:** No. |

**Special precautions for user** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

**IMSBC**

**Proper shipping name** : UREA
**Class** : Not applicable.
**Group** : C

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable.

## 15.Regulatory information

**Canada**

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

**Canadian lists**

**Canadian NPRI** : None of the components are listed.
**CEPA Toxic substances** : None of the components are listed.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**

**Remark** : To our knowledge no other country or state specific regulations are applicable.

**International lists**

**Philippines inventory (PICCS):** All components are listed or exempted.
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
**Korea inventory:** All components are listed or exempted.
**Japan inventory:** All components are listed or exempted.
**China inventory (IECSC):** All components are listed or exempted.
**Australia inventory (AICS):** All components are listed or exempted.
**Canada inventory:** All components are listed or exempted.
**Malaysia Inventory (EHS Register):** Not determined.
**Taiwan inventory (CSNN):** Not determined.
**United States inventory (TSCA 8b):** All components are listed or exempted.
**EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

## 16.Other information

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor
bw = Body weight
CEPA = Canadian Environmental Protection Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IDLH = Immediately Dangerous to Life or Health
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NPRI = National Pollutant Release Inventory
UN = United Nations

| | | |
|---|---|---|
| **References** | : | EU REACH IUCLID5 CSR.<br>National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.<br>IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.EU REACH IUCLID5 CSR.<br>National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.<br>IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada. |
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