

635 SOUTH ELMWOOD AVENUE

Material Safety Data Sheet

P.O. BOX 4076

DAVENPORT, IOWA 52808 Page 1 of 8

EMERGENCY PHONE 563-324-3381 Effective date: 8/1/1999 Print date: 8/21/2003

NFPA: Health 1, Fire 0, Reactivity 0

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product: POWER MELT®

Effective Date: 07/29/96 Date Printed: 07/10/01

MSDS Information: 563-324-3381

2. COMPOSITION/INFORMATION ON INGREDIENTS

Urea	CAS# 000057-13-6	25-35%
Calcium chloride	CAS# 010043-52-4	58-69%
Sodium chloride	CAS# 007647-14-5	1%
Potassium chloride	CAS# 007447-40-7	2%
Water	CAS# 007732-18-5	3-5%

3. HEALTH HAZARD DATA

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury. Effects may be slow to heal. Dust may irritate eyes.

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response if confined to skin. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

INHALATION: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract (nose and throat).



635 SOUTH ELMWOOD AVENUE P.O. BOX 4076 DAVENPORT, IOWA 52808

Material Safety Data Sheet

Page 2 of 8

EMERGENCY PHONE 563-324-3381 Effective date: 8/1/1999 NFPA: Health 1, Fire 0, Reactivity 0

Print date: 8/21/2003

4. FIRST AID

EYE: Irrigate with flowing water immediately and continuously for 15 minutes. Consult

medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available

and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophageal control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable. METHOD USED: Not applicable.

FLAMMABILITY LIMITS

LFL: Not applicable. UFL: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of of this product may decompose. The smoke contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: nitrogen oxides, ammonia.

OTHER FLAMMABILITY INFORMATION: This material does not burn.

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning.



NFPA: Health 1, Fire 0, Reactivity 0

Material Safety Data Sheet

Page 3 of 8

Effective date: 8/1/1999 Print date: 8/21/2003

5. FIRE FIGHTING MEASURES (continued)

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 Regulatory Information)

PROTECT PEOPLE: Isolate area. Avoid contact with eyes and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment. For additional information, refer to "Exposure Controls/Personnel Protection", MSDS Section 8.

PROTECT THE ENVIRONMENT: For small spills: Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.

For large spills: Avoid contamination of drinking water, natural water, ground water or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.

CLEANUP: For small spills: Contain spill if possible. Collect material in a suitable and properly labeled containers. Flush residue with plenty of water.

For large spills: Dike and transfer to suitable and properly labeled containers. Flush residue with plenty of water.

7. HANDLING AND STORAGE

HANDLING: Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80F, 27C).

Refer to Exposure Controls/Personal Protection, Section 8, of the MSDS.

STORAGE: Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

Ossian, Inc.

635 SOUTH ELMWOOD AVENUE P.O. BOX 4076

Material Safety Data Sheet

DAVENPORT, IOWA 52808

Page 4 of 8

EMERGENCY PHONE 563-324-3381

NFPA: Health 1, Fire 0, Reactivity 0

Effective date: 8/1/1999 Print date: 8/21/2003

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. If respiratory protection is experienced, use an approved airpurifying respirator.

EXPOSURE GUIDELINES:

Urea: AIHA WEEL is 10 mg/m3.
Calcium chloride: Dow IHG is 10 mg/m3.
Sodium chloride: Dow IHG is 10 mg/m3.
Potassium chloride: Dow IHG is 10 mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blend of red and white to off white, solid – pellets.

ODOR: Odorless

VAPOR PRESSURE: 0.009 mmHg @ 20C

VAPOR DENSITY: Not applicable.

MELTING POINT: Approx. 446F, 230C

BOILING POINT: 388F, 198C SOLUBILITY IN WATER: Very soluble.

SPECIFIC GRAVITY: 2.2

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Thermally stable at typical use temperatures. Hygroscopic.



NFPA: Health 1, Fire 0, Reactivity 0

Material Safety Data Sheet

Page 5 of 8

Effective date: 8/1/1999 Print date: 8/21/2003

10. STABILITY AND REACTIVITY (continued)

CONDITIONS TO AVOID: Some components of this product can decompose at elevated temperatures. Avoid moisture.

INCOMPATIBILITY WITH OTHER MATERIALS: Corrosive when wet. Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with metals such as aluminum, brass, ferrous metals, mild steel. Flammable hydrogen may be generated with metals such as zinc or sodium. Avoid contact with sulfuric acid.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Hazardous decomposition products may include and are limited to: ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, call the non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

INGESTION: Single dose oral LD50 has not been determined.

MUTAGENICITY: For calcium chloride in vitro studies mutagenicity studies were negative. For urea and sodium chloride in vitro mutagenicity were negative in some cases and positive in other cases. For potassium chloride in vitro mutagenicity studies were positive.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, call the non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Partitioning from water to n-octanol is not applicable.

DEGRADATION & PERSISTANCE: Biodegradation is not applicable.

ECOTOXICITY: Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50 Is greater than 100 mg/L in most sensitive species).



Material Safety Data Sheet

Page 6 of 8

Effective date: 8/1/1999 Print date: 8/21/2003

NFPA: Health 1, Fire 0, Reactivity 0

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. TRIPLE S HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/ Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: reclaimer, landfill, or waste water treatment system.

For additional information, refer to:

- Handling & Storage Information, MSDS Section 7.
- Stability & Reactivity Information, MSDS Section 10.
- Regulatory Information, MSDS Section 15.

14. TRANSPORT INFORMATION

UNITED STATES DOT INFORMATION:

This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION:

This product is not regulated by T.D.G. when shipped domestically by land.

15. REGULATORY INFORMATION (Not meant to be all-inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is give. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.



635 SOUTH ELMWOOD AVENUE P.O. BOX 4076 DAVENPORT, IOWA 52808 **Material Safety Data Sheet**

Page 7 of 8

EMERGENCY PHONE 563-324-3381 Effective date: 8/1/1999 NFPA: Health 1, Fire 0, Reactivity 0

Print date: 8/21/2003

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

This product has been categorized as an "immediate health hazard" due to possible effects on the eye.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

The CAS number(s) for TSCA is(are):

CAS# 000057-13-6 CAS# 010043-52-4 CAS# 007647-14-5 CAS# 007447-40-7 CAS# 007732-18-5

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product has been categorized as a "Hazardous Chemical" due to possible effects on the eye.



NFPA: Health 1, Fire 0, Reactivity 0

Material Safety Data Sheet

Page 8 of 8

Effective date: 8/1/1999 Print dat

Print date: 8/21/2003

15. REGULATORY INFORMATION (continued)

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B – eye or skin irritant

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS: CAS # AMOUNT (%w/w)

Calcium chloride CAS# 010043-52-4 68-86%