

TERRAFUSE INC. 1325 HASTINGS CRES. SE CALGARY, AB., T2G 4C8 CANADA 403.243.3000

PRODUCT: TF HEAT ACCELERATOR **CODE: 4050** 

#### **SECTION 01: IDENTIFICATION**

SUPPLIER IDENTIFIER..... Terrafuse Inc.

1325 Hastings Cres. SE.

Calgary AB T2G 4C8

None.

403.243.3000

PRODUCT IDENTIFIER..... TF HEAT ACCELERATOR

PRODUCT CODE(S)..... 4050

MANUFACTURER ..... TERRAFUSE INC 1325 HASTINGS CRES SE CALGARY, AB T2G 4C8

TEL:(403)243-3000 FAX:(403)243-3050.

INTENDED PRODUCT USE..... Mortar accelerator. PRODUCT NAME..... TF HEAT Accelerator.

EMERGENCY NUMBER CANUTEC (reverse charges): (613) 996-6666. EMERGENCY NUMBER. Magnesia, Calcined Magnesia, Calcined Magnesia, Fused Magnesia. EMERGENCY NUMBER......OTHER MEANS OF IDENTIFICATION......

SECTION 02: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... Not Classified. HAZARD STATEMENT..... Not Applicable.

PRECAUTIONARY STATEMENT..... No additional information available.

Prevention Response Storage

SIGNAL WORD.....

Disposal

OTHER HAZARDS.....

#### **SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS** HAZARDOUS INGREDIENTS CAS# WT. % Magnesium Oxide 1309-48-4 94-98

Oxides of calcium, iron, aluminum, and silicon mixture 2-6

### **SECTION 04: FIRST-AID MEASURES**

**ROUTES OF EXPOSURE** 

INHALATION..... If inhaled, remove victim to fresh air. If there is difficulty breathing, seek medical attention. If not breathing, give artificial respiration.

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Never give anything by

mouth to an unconscious person. Obtain immediate medical attention.

Remove any contaminated clothing and shoes. Immediately flush skin with plenty of water. SKIN CONTACT.....

If irritaion persists, seek medical attention. Decontaminate clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelid open. In EYE CONTACT.....

case of persistent discomfort, consult with an ophthalmologist. . ADDITIONAL INFORMATION..... In the event of an incident involving this product ensure that medical authorities are

provided with a copy of this SDS. In all cases, if irritation persists seek medical attention.

Treat any ill effects symptomatically and supportively.

#### SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABILITY..... Not Flammable.

SUITABLE EXTINGUISHING MEDIA..... UNSUITABLE EXTINGUISHING MEDIA..... SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS HAZARDOUS COMBUSTION PRODUCTS.

FIRE/EXPLOSION HAZARDS.....FIRE FIGHTING INSTRUCTIONS.....

Carbon dioxide (CO2). Dry powder. Foam. Water spray. As for surrounding fire.

High volume water jet.
As in any fire, wear self-contained breathing apparatus and full protective gear. .

Not applicable. Not applicable.

As for surrounding fire.

## **SECTION 06: ACCIDENTAL RELEASE MEASURES**

**EQUIPMENT AND EMERGENCY PROCEDURE** 

PERSONAL PRECAUTIONS, PROTECTIVE Ensure adequate ventilation. Avoid eye contact. Avoid skin contact. Use proper protective equipment. Isolate area: keep all unprotected people away from the spill area.



## PRODUCT: TF HEAT ACCELERATOR

## **SECTION 06: ACCIDENTAL RELEASE MEASURES**

METHODS AND MATERIALS FOR ..... CONTAINMENT AND CLEANING UP

ENVIRONMENTAL PRECAUTIONS.....

Pick-up spills without creating dust. Place material into a dry container and cover. Hold in sealed container for disposal. Use personal protective equipment as required (See Section 8 - Exposure Controls and Personal Protection).
Prevent runoff into drains, sewers and other waterways. Do not flush into surface water of

**CODE: 4050** 

sanitary sewer system. .

## **SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING......

Avoid inhalation of dust. Clean area frequently to avoid dust build-up. Wear applicable personal protective equipment as indicated in Section 8 - Exposure Controls and Personal Protection.

CONDITIONS FOR SAFE STORAGE. INCLUDING ANY INCOMPATIBILITIÉS Store in a dry area in sealed containers. Keeps away from incompatible materials such as interhalogens and strong acids. Avoid contact with water - product reacts exothermically with water to form magnesium hydroxide and heat/steam. Water contact in closed or restricted storage vessels may cause heat, swelling, and possible rupture of storage vessel.

#### **SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

	ACGIH TLV		OSHA PEL		NI	OSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL	

Magnesium Oxide

10mg/m3 (Nuisance Particulate)

15 mg/m3 (Nuisance Particulate)

Oxides of calcium, iron, aluminum, and silicon

10mg/m3 (Total Particulate)

15mg/m3 (Total Particulate)

APPROPRIATE ENGINEERING CONTROLS Engineering controls may include process enclosure and/or local exhaust ventilation to maintain dust concentrations below allowable exposure limits. Local exhaust ventilation with or without process enclosure is important where large quantities are handled, as in bagging operations. .

INDIVIDUAL PROTECTION MEASURES

RESPIRATORY/TYPE.....

If adequate engineering controls are not available, wear respirator approved by NOISH/MSHA for dusts/mists, as applicable. If magnesium oxide fume is likely to be produced then ensure that a NOISH/MSHA respirator approved for fumes is used. In conditions of oxygen deficiency, or where airborne concentrations exceed 100mg/m3, wear positive pressure or pressure demand supplied air respiratory protection or SCBA.

CLOTHING/TYPE.....

EYE/TYPE.....

Wear coveralls. Wear safety goggles in high dust concentrations, unless full face-piece respiratory

protection is worn.

### **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE (PHYSICAL STATE AND .... White to light brown powder/granules. COLOUR) ODOUR.. Odourless.

ODOUR THRESHOLD..... MELTING POINT AND FREEZING POINT ...

Not applicable. 10.3 (Sat. aq. sol'n). Approx. 2800°C.

ÌNITIAL BOILING POINT AND BOILING .....

Approx 3600°C.

RANGE (°C) FLASH POINT (°C), METHOD.....

Not Applicable. Not Applicable.

EVAPORATION RATE......FLAMMABILITY (SOLIDS AND GASES)..... UPPER FLAMMABLE LIMIT (% VOL)...... LOWER FLAMMABLE LIMIT (% VOL)...... VAPOUR PRESSURE......

Not applicable. Not Applicable. Not Applicable.

VAPOUR DENSITY (AIR=1)..... RELATIVE DENSITY..... SOLUBILITY..... AUTO IGNITION TEMPERATURE (°C)....... VISCOSITY.....

Not Applicable. Not Applicable. 3.58g/cc. 0.0006g/100ml.

Not Applicable. Not Applicable.



## PRODUCT: TF HEAT ACCELERATOR

### **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY

CHEMICAL STABILITY..... Stable under normal conditions.

CONDITIONS TO AVOID..... Avoid contact with water- product reacts exothermically with water to form magnesium

hydroxide and heat/steam.

SENSITIVITY TO STATIC DISCHARGE..... Not applicable.

SENSITIVITY TO SHOCK OR VIBRATION. Not applicable.

INCOMPATIBILE MATERIALS..... Strong Acids, Interhalogens (eg. Promine pentafluoride, chlorine tri-fluoride), phosphorous

HAZARDOUS DECOMPOSITION ..... Magnesium fume may be generated if heated to volatization. Heat and steam may be

**PRODUCTS** generated upon contact with water.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**INGREDIENTS** LC50 LD50

LD50/LC50..... No Data Available.

IRRITANCY..... May cause irritancy of eyes, skin or nasal passages.

SENSITIZER..... No Data Available.

CARCINOGENICITY..... Magnesium oxide is not listed as a carcinogen by ACGIH, IARC, NOISH, NTP or OSHA.

TERATOGENICITY..... Not Data Available. REPRODUCTIVE EFFECTS..... No Data Available. MUTAGENICITY..... No Data Available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY..... No Data Available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS..... Dispose of in a licensed facility. Recommend crushing, puncturing or other means to

prevent unauthorized use of used containers. . This product does not meet the criteria of a hazardous waste. Dispose in accordance with all applicable federal, provincial/state, and

**CODE: 4050** 

local environmental regulations.

LOCAL DISPOSAL REGULATIONS..... Dispose in accordance with all applicable regulations.

# **SECTION 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION..... Not Regulated.

UN NUMBER.. No UN number assigned. .....

SHIPPING NAME

CLASS PACKAGING GROUP

SPECIAL PRECAUTIONS..... No special requirements.

#### **SECTION 15: REGULATORY INFORMATION**

Canada- Domestic Substances List (DSL).... 1309-48-4.

U.S. TSCA INVENTORY STATUS..... Toxic Substances Control Act (TSCA) Inventory List 8(b): 1309-48-4.

CEPA STATUS..... This product is not listed as a toxic substance under the Canadian Environmental

Protection Act (CEPA 1999).

This product is listed on the WHMIS Ingredient Disclosure List: Magnesium Oxide (Item WHMIS1988 CLASSIFICATION..... #959), Calcium Oxide (Item #304). This product has been classified in accordance with the

hazard criteria of the CPR (Controlled Products Regulations) and this SDS contains all of

the information required by the CPR.

CERCLA REPORTABLE QUANTITY (RQ)... Not listed as a hazardous substance.

SARA TITLE III:

SARA 302.....

Product is not listed as an Extremely Hazardous Substance (EHS).

Hazard Category: Acute (nuisance dust) MSDS, chemical inventory, Tier I/II reporting are SARA 311/312.....

applicable.

SARA 313..... Product is not subject to Form R reporting.

## **SECTION 16: OTHER INFORMATION**

This information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or



00003578 **SAFETY DATA SHEET** Page 4

PRODUCT: TF HEAT ACCELERATOR

## **SECTION 16: OTHER INFORMATION**

DISCLAIMER:....

implied, regarding the accuracy, correctness, or suitability of this information for application to the purchasers intended use. The conditions or methods of handling, storage, use and disposal of the product are beyond our control. We, therefor, do not assume the responsibility and expressly disclaim liability for loss, damage or expense arising out of or

**CODE: 4050** 

in any way connected with the handling, storage, use or disposal of the product.

PREPARED BY: .....PREPARATION DATE..... Terrafuse Inc. AUG 24/2017