



## Safety Data Sheet

SDS No. 942A

## Section 1 - Identification

- 1.1 Product identifier:** DUO Matrix<sup>®</sup> Cure Accelerator; MG Accelerator; Aluminum Sulfate Hydrate
- 1.2 General Use:** Gypsum cure accelerator
- 1.3 Manufacturer:** Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062  
Phone (610) 252-5800, FAX (610) 252-6200  
SDS@Smooth-On.com
- 1.4 Emergency Contact:** Chem-Tel  
Domestic: 800-255-3924 International: 813-248-0585

## Section 2 - Hazards Identification

- 2.1 Classification of the substance or mixture**  
Serious Eye Damage/Eye Irritation – Category 1, H318  
Acute aquatic toxicity – Category 2, H411  
Chronic aquatic toxicity – Category 2, H411

- 2.2 GHS Label elements, including precautionary statements**  
**Hazard Pictogram(s):**



**Signal Word:** Danger

## Health Hazards:

H318 Causes serious eye damage

## Environmental Hazards:

H411 Toxic to aquatic life with long lasting effects

## General Precautions:

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

## Prevention Precautions:

- P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Response Precautions:

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P391 Collect spillage.

## Disposal Precautions

- P501 Dispose of contents/container according to local, state and federal laws.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

### Section 3 - Composition / Information on Ingredients

#### 3.1 Substances

The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

CAS Number	Component	Concentration
17927-65-0	Aluminum sulfate, hydrate	>98%

### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

**Inhalation:** Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

None known.

**4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.**

### Section 5 - Fire-Fighting Measures

**5.1 Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

**5.2 Special hazards arising from the substance or mixture:** None known.

**5.3 Advice for firefighters:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

### Section 6 - Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

**6.2 Environmental precautions:** No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up:** absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution

**6.4 Reference to other sections:** if appropriate Sections 8 and 13 shall be referred to.

### Section 7 - Handling and Storage

**7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

**7.3 Specific end use(s):** These precautions are for room temperature handling. Other uses may require added precautions.

### Section 8 - Exposure Controls / Personal Protection

#### 8.1 Occupational Exposure Limits:

Component	Type	Value	Sources
Aluminum sulfate hydrate – as aluminum	TWA	2 mg/m <sup>3</sup>	ACGIH-TLV

#### 8.2 Exposure controls:

**Respiratory Protection:** Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with particulate filter cartridges.

**Hand Protection:** Wear any tight fitting gloves such as butyl rubber, neoprene or PVC.

**Eye Protection:** Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties:

**Appearance :** solid crystals

**Odor/Threshold:** odorless

**pH:** >2.9 (1 g/ 1ml water)

**Melting Point/Freezing Point:** 770 °C  
decomposes

**Low/High Boiling Point:** no data

**Flash Point:** no data

**Evaporation Rate:** Not available

**Flammability:** f.p. at or above 200 °F

**UEL/LEL:** Not available

**Vapor Pressure:** None

**Vapor Density (Air=1):** >1

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.61

**Water Solubility:** soluble

**Partition coefficient:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** 770 °C

**Viscosity:** N.A. (powder)

**% Volatile:** Nil

### Section 10 - Stability and Reactivity

**10.1 Reactivity:** No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

**10.2 Chemical stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.

**10.3 Possibility of hazardous reactions:** Hazardous polymerization cannot occur.

**10.4 Conditions to avoid:** none known

**10.5 Incompatible materials:** strong bases and acids

**10.6 Hazardous decomposition products:** Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

## Section 11- Toxicological Information

### 11.1 Information on toxicological effects:

**Skin Corrosion/Irritation:** no data

**Serious Eye Damage/Irritation:** rabbit 10 mg/24 hour – severe irritation

**Respiratory/Skin Sensitization:** no data

**Germ Cell Mutagenicity:** no data

**Carcinogenicity:** No components of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by ACGIH, IARC, NTP or OSHA.

**Reproductive Toxicity:** No components toxic to reproduction

**Specific Target Organ Toxicity – Single Exposure:** no data

**Specific Target Organ Toxicity – Repeated Exposure:** no data

**Aspiration Hazard:** no data

**Acute Toxicity:**

LD50 oral – >5000 mg/kg (mouse, rat)

**Chronic Exposure:** no data

**Potential Health Effects – Miscellaneous:** no data

## Section 12 - Ecological Information

### 12.1 Toxicity:

LC50 *Pimephales promelas*: 33.9 mg/L – 96 hour

EC50 *Asellus aquaticus*: 6.57 mg/L – 48 hour

**12.2 Persistence and Degradability:** no data

**12.3 Bioaccumulative Potential:** no data

**12.4 Mobility in Soil:** no data

**12.5 Results of PBT and vPvB assessment:** no data

**12.6 Other Adverse Effects:** no data

## Section 13 - Disposal Considerations

**13.1 Waste treatment methods:** Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## Section 14 - Transport Information

**DOT**

**IATA**

**IMDG**

**Not Regulated**

**Not Regulated**

**Not Regulated**

## Section 15 - Regulatory Information

**15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:**

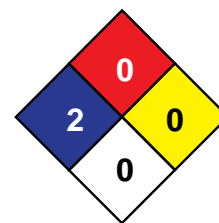
**In the United States (EPA Regulations):**

**TSCA Inventory Status (40 CFR710):** All components of this formulation are listed in the TSCA Inventory.

**California Proposition 65:** This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

## 16 - Other Information

HMIS	
H	2
F	0
R	0



NFPA

**SDS Version:** 2

**Date Prepared:** October 5, 2015

**Glossary:** ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer:** The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.