

# Material Safety Data Sheet

## ACCELERATOR DY 070 US

### 1. Product and company identification

**Product name** : ACCELERATOR DY 070 US  
**Material uses** : Ancillary product for structural composites  
**MSDS #** : 00067758  
**Validation date** : 1/26/2012.  
**Print date** : 1/26/2012.

**Supplier/Manufacturer** : Huntsman Advanced Materials Americas LLC  
P.O. Box 4980  
The Woodlands, TX 77387

Non-Emergency phone: (800) 257-5547

E-Mail: MSDS@huntsman.com

**In case of emergency** : Chemtrec: (800) 424-9300 or (703) 527-3887

### 2. Hazards identification

**Physical state** : Liquid.  
**Odor** : Slight  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Emergency overview** : DANGER!

COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE AND SKIN BURNS. HARMFUL IF ABSORBED THROUGH SKIN. MAY BE HARMFUL IF SWALLOWED.

Combustible liquid. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

See toxicological information (Section 11)

**GENERAL INFORMATION** : Read the entire MSDS for a more thorough evaluation of the hazards.

### 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
1-methylimidazole	616-47-7	60 - 100

### 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.

## 4 . First aid measures

- 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** : Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

## 5 . Fire-fighting measures

- Flash point** : Closed cup: 92°C (197.6°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]
- Hazardous thermal decomposition products** : No specific data.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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.

## 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. 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** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 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. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

- : Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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

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. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### 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

- : In case of inadequate ventilation wear respiratory protection. 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. >8 hours (breakthrough time): butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)

#### 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.

## 8 . Exposure controls/personal protection

**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

### General information

#### Appearance

**Physical state** : Liquid.  
**Color** : Not available.  
**Odor** : Slight

### Important health, safety and environmental information

**pH** : 9 [Conc. (% w/w): 50%]  
**Boiling/condensation point** : 200°C (392°F)  
**Melting/freezing point** : Not available.  
**Flash point** : Closed cup: 92°C (197.6°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]  
**Flammable limits** : Not available.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : >200°C (>392°F)  
  
**Vapor pressure** : 0.015 kPa (0.1125 mm Hg) [20°C]  
**Specific gravity** : 1.04  
**Water solubility** : miscible  
**Partition coefficient: n-octanol/water (log Kow)** : Not available.  
**Viscosity** : Dynamic: <50 mPa·s (<50 cP)  
**Density** : 0.95 to 1.05 g/cm<sup>3</sup> [25°C (77°F)]  
**Vapor density** : Not available.  
**Evaporation rate (butyl acetate = 1)** : Not available.  
**VOC** : Not available.

## 10 . Stability and reactivity

**Chemical stability** : The product is stable.  
Under normal conditions of storage and use, hazardous reactions will not occur.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.  
**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological information

### Potential acute health effects

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.
- Skin** : Corrosive to the skin. Causes burns. Toxic in contact with skin.
- Eyes** : Corrosive to eyes. Causes burns.

Product/ingredient name	Result	Species	Dose	Exposure
1-methylimidazole	LD50 Dermal	Rabbit	400 to 640 mg/kg	-
	LD50 Oral	Rat	1144 mg/kg	-

### Potential chronic health effects

- Chronic effects** : No known significant effects or critical hazards.
- Target organs** : 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.
- Fertility effects** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.

### Medical conditions aggravated by over-exposure

None known.

## 12 . Ecological information

- Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
1-methylimidazole	DIN DIN 38412 Part 8	Acute EC50 1050 mg/L	Bacteria	17 hours
	EU	Acute EC50 267.9 mg/L	Daphnia	48 hours Static
	DIN DIN 38412 part 9	Acute EC50 180.7 mg/L	Algae	72 hours
	DIN DIN 38412 Part 15	Acute LC50 100 to 220 mg/L	Fish	96 hours Static

### Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
1-methylimidazole	OECD 301F Ready Biodegradability - Manometric Respirometry Test	0 to 10 % - Not readily - 28 days	BOD:	Activated sludge

### Other ecological information

## 12 . Ecological information

**Biological Oxygen Demand (BOD 5 DAY)** : Not Determined

**Chemical Oxygen Demand (COD)** : Not Determined

**Product/ingredient name**

1-methylimidazole

**Aquatic half-life**

-

**Photolysis**

-

**Biodegradability**

Not readily

**Bioaccumulative potential**

**Product/ingredient name**

1-methylimidazole

**LogP<sub>ow</sub>**

0.6

**BCF**

-

**Potential**

low

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

**PBT** : No.

**Other information**

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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.

## 14 . Transport information



**Proper shipping name**

**DOT** : Corrosive liquid, toxic, n.o.s. (1-methylimidazole)







**TDG** : Corrosive liquid, toxic, n.o.s. (1-methylimidazole)

**IMDG** : Corrosive liquid, toxic, n.o.s. (1-METHYL IMIDAZOLE)

**IATA** : Corrosive liquid, toxic, n.o.s. (1-METHYL IMIDAZOLE)

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	UN2922	8 (6.1)	II	 	-

## 14 . Transport information

<b>TDG Classification</b>	UN2922	8 (6.1)	II	 	-
<b>IMDG Class</b>	UN2922	8 (6.1)	II	 	<b><u>Emergency schedules (EmS)</u></b> F-A, S-B
<b>IATA-DGR Class</b>	UN2922	8 (6.1)	II	 	<b><u>Passenger and Cargo Aircraft</u></b> Quantity limitation: 1 L Packaging instructions: 851 <b><u>Cargo Aircraft Only</u></b> Quantity limitation: 30 L Packaging instructions: 855

PG\* : Packing group

## 15 . Regulatory information

### U.S. Federal regulations

#### HCS Classification

: Combustible liquid  
Toxic material  
Corrosive material

#### U.S. Federal regulations

: **United States inventory (TSCA 8b)**: All components are listed or exempted.

#### TSCA 5(a)2 final significant new use rule (SNUR)

: None.

#### TSCA 5(e) substance consent order

: None.

#### TSCA 12(b) one-time export notification:

: None.

#### TSCA 12(b) annual export notification

: None.

#### SARA 302/304/311/312 extremely hazardous substances

: **SARA 302/304/311/312 extremely hazardous substances**: No Ingredient Listed

#### SARA 311/312 hazard identification

: **SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: No Ingredient Listed

#### Clean Air Act Section 111 - Volatile Organic Compounds (VOC)

## 15 . Regulatory information

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Product name CAS number Concentration  
No Ingredients Listed.

**Clean Air Act - Ozone Depleting Substances (ODS)** : This product does not contain nor is it manufactured with ozone depleting substances.

**SARA 313** No ingredients listed.

**CERCLA: Hazardous substances:** No ingredients listed.

### STATE REGULATIONS:

**PENNSYLVANIA - RTK:** None of the components are listed.

**California Prop 65 :** This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### Canada

**WHMIS (Canada)** : Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class E: Corrosive material

**CEPA DSL** : All components are listed or exempted.

**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.**

**International lists** : **Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** All components are listed or exempted.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

## 16 . Other information

**Label requirements** : COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE AND SKIN BURNS. HARMFUL IF ABSORBED THROUGH SKIN. MAY BE HARMFUL IF SWALLOWED.

**Hazardous Material Information System (U.S.A.)** :

Health	3
Flammability	2
Physical hazards	0
Personal protection	

The customer is responsible for determining the PPE code for this material.



## 16 . Other information

National Fire Protection :  
Association (U.S.A.)



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