

# 5300 Activator

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/21/2014 Version: 1.0

### SECTION 1: Identification of the substance or mixture and of the company/institution

#### 1.1 Product identifier

Product form : Mixtures  
Product name : 5300 Activator  
Product code : 5300 Activator  
Formula : 37058D

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive: component

#### 1.3 Details of the supplier of the safety data sheet

Advanced Adhesive Systems, Inc.  
581 North Mountain Road  
Newington CT 06111

860-953-4100

#### 1.4 Emergency telephone number

Emergency number : 1-800-255-3924 INTERNATIONAL: 001-813-248-0585  
Chem-Tel (available 24 hours/day)

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

##### Classification (GHS-US)

Fam. Liq. 2	H225
Aquatic Acute 3	H402

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### 2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS02

Signal word (GHS-US)

: Danger.

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapor  
H402 - Harmful to aquatic life

Precautionary statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective clothing, protective gloves  
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P370 + P378 - In case of fire: Use Use dry chemical, CO2, or Foam to extinguish  
P403 + P235 - Store in a cool and well-ventilated place.  
P501 - Dispose of contents/container to an approved waste disposal plant, in accordance with applicable local, state, national laws  
P202 - Do not handle until all safety precautions have been read and understood  
P261 - Avoid breathing vapors  
P262 - Do not get in eyes, on skin, or on clothing  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P302 - IF ON SKIN: Wash skin with mild soap and water.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 - Get medical advice/attention if you feel unwell  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P411 + P235 - Store at temperatures not exceeding 38C/100F. Keep cool.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product Identifier	%	Classification (GHS-US)
methymethacrylate, monomer, inhibited	(CAS No)80-62-6	60 - 85	Flam. Liq. 2, H225 Aquatic Acute 3, H402
solvent naphtha(petroleum), medium aliph.	(CAS No)64742-88-7	< 5	Asp. Tox. 1, H304

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person. Unconscious: maintain adequate airway and respiration.
- First-aid measures after inhalation : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Immediately consult a doctor/medical service.
- First-aid measures after skin contact : Remove contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth with water. Do NOT induce vomiting. Get immediate medical attention.

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

- Symptoms/injuries after inhalation : Moderate irritation to respiratory tract. Cough. Shortness of breath.
- Symptoms/injuries after skin contact : Itching. May cause moderate irritation. May cause an allergic skin reaction. Red skin.
- Symptoms/injuries after eye contact : Moderate eye irritant. Lacrimation. Redness of the eye tissue.
- Symptoms/injuries after ingestion : Toxicity by ingestion is not likely to occur.
- Chronic symptoms : eye disorders, respiratory disorders, skin disorders.

#### 4.3 Identification of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Extinguishing measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : carbon dioxide (CO2), dry chemical powder, foam.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

#### 5.2 Special hazards arising from the substance or mixture

- Fire hazard : Flammable. Heat destroys stabilizer against polymerization. Insoluble in water.
- Explosion hazard : May build up electrostatic charges: risk of ignition hazard, may be ignited by sparks.
- Reactivity : Alkalis. Amines. Moisture. Oxidizers. Reducing agents. Strong acids, bases. Ultraviolet radiation.

#### 5.3 Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: consider evacuation. Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : carbon oxides (CO and CO2). Nitrogen oxides. Hydrogen cyanide. Isocyanates. smokes. Other toxic vapors.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation. Eliminate ignition sources. Use protective clothing. Use special care to avoid static electric charges. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- 6.1.1 For non-emergency personnel
- Protective equipment : Gloves. Protective clothing. Safety glasses.
- Emergency procedures : Evacuate unnecessary personnel. Keep upwind. Remove all sources of ignition. Seal off low-lying areas. Use personal protective equipment as required.
- 6.1.2 For emergency responders
- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Stop leak if safe to do so. Ventilate area.
- 6.2 Environmental precautions
- Try to stop release. Avoid release to the environment. Prevent entry to sewers and public waters.

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### 6.3. Methods and material for containment and cleaning up

- For containment : Dam up the liquid spill. Plug the leak, cut off the supply.  
Methods for cleaning up : Take up liquid spill into inert absorbent material. Absorbed substance: shovel into drums.

### 6.4. Reference to other sections

See also sections 8 and 13.

### 7.1. Precautions for safe handling

- Additional hazards when processed : Keep away from Heat, sources of ignition. - No smoking.  
Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Use only non-sparking tools. Use personal protective equipment as required.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.  
Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight., Heat sources.  
Incompatible products : strong acids. Reducing agents. amines. Oxidizing agent. Strong bases.  
Incompatible materials : Refer to Section 10 on Incompatible Materials.  
Maximum storage period : 6 months @ 23C stored in original SEALED container  
Storage temperature : ≤ 37.7 °C  
Heat-ignition : ignition sources. heat sources.  
Prohibitions on mixed storage : peroxides. reducing agents.  
Storage area : Limited time of storage. Keep only in the original container. Store in a dry area. Store in a cool area. Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation.  
Personal protective equipment : Gloves. Protective clothing. Safety glasses. Respiratory protection not required in normal conditions.



- Materials for protective clothing : Chemical resistant.  
Hand protection : Wear chemically resistant protective gloves.  
Eye protection : Wear safety glasses with side shields.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Respiratory protection not required in normal conditions.  
Thermal hazard protection : None necessary.  
Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Paste.
Color	: White to yellow-brown
Odor	: Acrylic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: 3
Melting point	: No data available
Freezing point	: 0 °C
Boiling point	: 101 °C
Flash point	: 10.5 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 29 mm Hg @20C
Relative vapor density at 20 °C	: > 1
Relative density	: 0.97
Solubility	: Insoluble in water. Water: Solubility in water of component(s) of the mixture : *: 1.5 g/100ml *: *: < 0.1 g/100ml *: 0.02 g/100ml *: < 0.002 g/100ml *: > 2 g/100ml * *: *: < 0.0001 g/100ml *: *: *: 103 g/100ml *: 69 g/100ml *: *: 10.6 g/100ml *: 0.000076 g/100ml *: 0.03 g/100ml *: < 0.1 g/100ml *: 0.07 g/100ml *: 7.3 g/100ml *: < 0.1 g/100ml *: 0.15 g/100ml *: < 0.01 g/100ml *: 0.0014 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Heating may cause a fire or explosion.
Oxidizing properties	: None.
Explosive limits	: 2.1 - 12.5 vol % MMA

9.2. Other information

VOC content	: < 50 g/l Activator and Adhesive mixed
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### SECTION 10: Stability and reactivity

10.1. Reactivity	Alkalis. Amines. Moisture. Oxidizers. Reducing agents. Strong acids, bases. Ultraviolet radiation.
10.2. Chemical stability	Flammable liquid and vapor. Stable under normal conditions.
10.3. Possibility of hazardous reactions	Refer to section 10.1 on Reactivity.
10.4. Conditions to avoid	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
10.5. Incompatible materials	Refer to Section 10.1.
10.6. Hazardous decomposition products	Carbon dioxide. Carbon monoxide. hydrocarbons. Hydrogen Cyanide. Isocyanate containing vapors. irritating organic vapors. Oxides of Nitrogen.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects	
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Acute toxicity : Not classified

methylmethacrylate, monomer, inhibited (80-62-6)	
LD50 oral rat	> 6000 mg/kg (7900 mg/kg bodyweight; 8400 mg/kg bodyweight; Rat; Rat; Rat)
LD50 dermal rabbit	> 7550 mg/kg (>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	27.5 mg/l/4h (Ral)
ATE US (vapours)	27.50000000 mg/l/4h
ATE US (dust,mist)	27.50000000 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

methylmethacrylate, monomer, inhibited (80-62-6)	
IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Moderate irritation to respiratory tract. Cough. Shortness of breath.

Symptoms/injuries after skin contact : Itching. May cause moderate irritation. May cause an allergic skin reaction. Red skin.

Symptoms/injuries after eye contact : Moderate eye irritant. Lacrimation. Redness of the eye tissue.

Symptoms/injuries after ingestion : Toxicity by ingestion is not likely to occur.

Chronic symptoms : eye disorders. respiratory disorders. skin disorders.

### Section 12: Ecotoxicological information

#### 12.1. Toxicity

methylmethacrylate, monomer, inhibited (80-62-6)	
LC50 fish 1	130 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	69 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	191 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	502 mg/l (24 h; Daphnia magna)
TLM fish 1	159 mg/l (96 h; Pimephales promelas)
Threshold limit other aquatic organisms 1	100 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	37 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	120 mg/l (192 h; Microcystis aeruginosa)

#### 12.2. Persistence and degradability

methylmethacrylate, monomer, inhibited (80-62-6)	
Persistence and degradability	Readily biodegradable in water. No (test) data on mobility of the substance available. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.14 g O <sub>2</sub> /g substance
ThOD	1.9 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.073 % ThOD

#### 12.3. Bioaccumulative potential

methylmethacrylate, monomer, inhibited (80-62-6)	
BCF fish 1	2.97 - 3.5 (Pisces)
Log Pow	1.32 - 1.38 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C, Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C, Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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### 12.4. Stability in soil

#### methylmethacrylate, monomer, inhibited (80-62-6)

Surface tension : 0.028 N/m (20 °C)

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : RCRA Code U162. RCRA Code D001.

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

### In accordance with DOT

UN-No.(DOT) : 1133

DOT Proper Shipping Name : Adhesives (containing a flammable liquid)

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### Additional information

Other information : No supplementary information available.

Special transport precautions : Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

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ADR

Transport document description : UN 1133, 3, II, (D/E)  
 Packing group (ADR) : II  
 Class (ADR) : 3 - Flammable liquid  
 Hazard identification number (Kemler No.) : 33  
 Classification code (ADR) : F1  
 Danger labels (ADR) : 3 - Flammable liquids



Orange plates



Tunnel restriction code (ADR) : D/E  
 LQ : 5L  
 Excepted quantities (ADR) : E2

Transport by sea

UN-No. (IMDG) : 1133  
 Proper Shipping Name (IMDG) : Adhesives  
 Class (IMDG) : 3 - Flammable liquids  
 Packing group (IMDG) : II - substances presenting medium danger  
 Limited quantities (IMDG) : 5L  
 EmS-No. (1) : F-E  
 EmS-No. (2) : S-D

Air transport

UN-No. (IATA) : 1133  
 Proper Shipping Name (IATA) : Adhesives  
 Class (IATA) : 3 - Flammable Liquids  
 Packing group (IATA) : II - Medium Danger  
 Instruction "cargo" (ICAO) : 364  
 Instruction "passenger" (ICAO) : 353  
 Instruction "passenger" - Limited quantities (ICAO) : Y341

### SECTION 15: Regulatory information

#### 15.1 US Federal regulations

5300 Activator	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
methylmethacrylate, monomer, inhibited (80-62-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
RQ (Reportable quantity, section 304 of EPA's List of Lists):	None
SARA Section 302 Threshold Planning Quantity (TPQ)	None



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<b>methylmethacrylate, monomer, Inhibited (80-62-6)</b>	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Reactive hazard
SARA Section 313 - Emission Reporting	100 %

### 15.2. International regulations

#### CANADA

<b>5300 Activator</b>	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>methylmethacrylate, monomer, Inhibited (80-62-6)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1B	H350
STOT SE 3	H335
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

### 15.2.2. National regulations

<b>5300 Activator</b>	
Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.	

### 15.3. US State regulations

<b>5300 Activator()</b>	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. «_STATE_OR_LOCAL_REGULATIONS&disp=value&b»

## SECTION 6: Other information

Indication of changes : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

Training advice : Ensure operators understand the flammability hazard. Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases: see section 16:

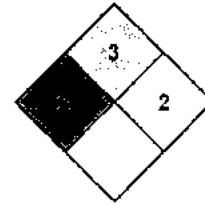
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2	Flammable liquids Category 2
H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H402	Harmful to aquatic life

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- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.
- HMIS III Rating
- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 3 Serious Hazard
- Physical : 2 Moderate Hazard
- Personal Protection : X



### SDS US (GHS HazCom 2012)

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