

Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 12 December 2008
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 Revision Number: 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): **Aladdin Self Cure Activator**
 Part/Item Number: 99405

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Used in bonding restorations
 Restrictions on Use: For professional use only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Sultan Healthcare
 Manufacturer/Supplier Address: 1301 Smile Way
 York, PA, USA
 Manufacturer/Supplier Telephone Number: 1-201-871-1232 or 800-637-8582
 (Product Information)-
 Email address: customer.service@sultanhc.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: 800-535-5053 (INFOTRAC)
 1-352-323-3500
 (Outside the United States – Call Collect)

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS SDS Classification

Health	Environmental	Physical
Skin Irritation Category 2 H315 Eye Irritation Category 2 H319 Skin Sensitization Category 1 H317 Specific Target Organ Toxicity Single Exposure Category 3 H336 Toxic to Reproduction Category 2 H361	Aquatic Chronic Toxicity Category 4 H413	Flammable Liquid Category 2 H225

EU Classification (1999/45/EC as amended): Highly Flammable (F), Irritant (Xi)

EU Risk (R) and Safety (S) Phrases: R11, R36/38, R43, R66, R67

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

Labeling Elements:



Signal Word: Danger!

Hazard Statements	Precautionary Statements
H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H413 May cause long lasting harmful effects to aquatic life.	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment P241 Use explosion-proof electrical, ventilating and lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist, vapors or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, skin protection and eye protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER or doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical attention. P370 + P378 In case of fire: Use carbon dioxide, alcohol foam or dry chemical to extinguish. P403 + P235 + P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: EUH066 Repeated exposure may cause skin dryness and cracking

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification 67/548/EEC (EC) No 1272/2008	WT %
Acetone	67-64-1 / 200-662-2	acetone	F, Xi R11, R36, R66, R67 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	50-70
Urethane dimethacrylate	105883-40-7	None	Xi R36/38 Skin Irrit 2 H315 Eye Irrit. 2; H319	5-15
2-Hydroxyethyl Methacrylate	868-77-9 / 212-782-2	2-hydroxyethyl methacrylate	Xi R36/38, R43 Skin Irrit 2 H315 Skin Sens 1 H317 Eye Irrit. 2 H319	1-10
Initiator	Proprietary	None	Xn R62, R51/53 Repr 2 H361 Aquatic Chronic 2 H411	1-2

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures:	
Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Seek medical attention if irritation persists.
Skin	Wash skin thoroughly with soap and water. Remove contaminated clothing. If irritation develops, get medical attention.
Inhalation	Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
4.2 Most Important Symptoms and Effects, Both Acute and Delayed:	
May cause eye irritation. Prolonged skin contact may cause irritation. Inhalation may cause headache, dizziness, drowsiness, nausea, narcosis, and unconsciousness.	
4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:	
None required under normal conditions of use.	
Note to Physicians (Treatment, Testing, and Monitoring):	
Treatment of overexposure should be directed at the control of symptoms and clinical conditions.	

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Use carbon dioxide, or dry chemical. Do not use water spray. Water spray may be used to cool exposed containers.

5.2 Special Hazards Arising from the Substance or Mixture:





Combustion may produce oxides of carbon, methacrylates, acrylates and peroxides.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures: Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses.

Precautions for Fire Fighters: This product is flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.

Recommended Protective Equipment for Fire Fighters:



EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing, gloves and eye protection.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6.2 Environmental Precautions:

Prevent spill from entering sewers and water courses. Do not flush to sewer. Report releases as required by local and national authorities.

6.3 Methods and Material for Containment and Cleaning up:

Eliminate all sources of ignition and ventilate the area. Collect using an inert non-combustible absorbent material and place in appropriate container.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use only with adequate ventilation. Wash exposed thoroughly with soap and water after handling and before eating, drinking, smoking or using restroom.

Empty containers retain product residue and may be hazardous. Follow all precautions in SDS when handling empty containers.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area away from ignition sources. Protect from physical damage.

Flammable liquid! Keep container away from excessive heat, sparks and open flames. Keep containers closed when not in use.



7.3 Specific End Use (s): For professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Occupational Exposure Limits:

Acetone	United States	1000 ppm TWA OSHA PEL 500 ppm TWA ACGIH TLV, 750 ppm STEL
	Germany	500 ppm TWA DFG MAK, 1000 ppm STEL
	United Kingdom	500 ppm TWA UK OEL, 1500 ppm STEL
	France	500 ppm TWA INRS, 1000 ppm STEL
	Spain	500 ppm TWA VLA-ED
	Italy	500 ppm TWA
	European Union	500 ppm TWA EU IOEL
2-Hydroxyethyl Methacrylate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	France	None Established
	Spain	None Established
	Italy	None Established
	European Union	None Established

Urethane Dimethacrylate	United States	None Established	
	Germany	None Established	
	United Kingdom	None Established	
	France	None Established	
	Spain	None Established	
	Italy	None Established	
	European Union	None Established	
Initiator	United States	None Established	
	Germany	None Established	
	United Kingdom	None Established	
	France	None Established	
	Spain	None Established	
	Italy	None Established	
	European Union	None Established	
Biological Exposure Limits: None Established			
8.2 Exposure Controls:			
Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.			
Individual Protection Measures (PPE) Specific Eye/face Protection: Splash proof goggles should be worn if splashing is possible. Specific Skin Protection: Wear impervious gloves such as butyl. Recommended glove: butyl. Consult glove supplier for thickness and breakthrough times. Specific Respiratory Protection: None required with adequate ventilation. If exposure limits are exceeded, an approved organic vapor respirator or self-contained breathing apparatus should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practices. Specific Thermal Hazards: Not applicable			
Recommended Personal Protective Equipment:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:			
Appearance:	Light yellow liquid	Explosive limits:	LEL: 2.5% UEL: 12.8% (acetone)

Odor:	Acetone	Vapor pressure:	231 mmHg @ 25°C (acetone)
Odor threshold:	4.58 ppm (acetone)	Vapor density:	Not available
pH:	6-8	Specific Gravity: (H₂O = 1)	0.9
Melting/freezing point:	Not available	Solubility:	Miscible
Initial boiling point and range:	133°F (56.2°C) (acetone)	Partition coefficient: n-octanol/water:	Not available
Flash point (CC):	36°F (2°C)	Auto-ignition temperature:	869°F (465°C) (acetone)
Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability:	Flammable	Viscosity:	Not available
Explosive Properties:	Explosive vapors concentrations may collect in confined areas.	Oxidizing Properties:	None

9.2 Other Information: None available

10. STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive under normal conditions of use.

10.2 Chemical Stability: Stable under normal conditions of use.

10.3 Possibility of Hazardous Reactions: Polymerization may occur.

10.4 Conditions to Avoid: Keep away from heat, sparks, flames and all other sources of ignition.

10.5 Incompatible materials: Avoid strong oxidizing agents and strong acids, visible light.

10.6 Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide, carbon dioxide, methacrylates, acrylates and peroxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: Vapors may cause eye irritation with redness, tearing and swelling.

Skin: Prolonged contact may cause irritation and drying of the skin.

<p>Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea and other symptoms listed under inhalation. Hyperglycemia or ketonemia may also be present.</p>
<p>Inhalation: Inhalation of vapors may cause respiratory tract irritation and central nervous system effects including headache, dizziness, drowsiness, narcosis and unconsciousness.</p>
<p>Chronic Health Effects: Prolonged and/or repeated overexposure to acetone may cause damage to the kidneys, liver, spleen and central nervous system based on animal data.</p>
<p>Carcinogenicity: Acetone: There is inadequate evidence of carcinogenicity in humans and animals.</p>
<p>Mutagenicity: Acetone: Negative in AMES test, sister chromatid exchange in CHO and chromosome aberrations in CHO.</p>
<p>Medical Conditions Aggravated by Exposure: Persons with existing skin disorders may be at increased risk from exposure.</p>
<p>Acute Toxicity Data: Acetone: Oral rat LD50 5800 mg/kg, Inhalation rat LC50 76 mg/L/4 hr, Skin rabbit LD50 >7426 mg/kg 2-Hydroxyethyl Methacrylate: Oral rat LD50 5050 mg/kg Urethane Dimethacrylate: No toxicity data available Initiator: Oral rat LD50 >5000 mg/kg</p>
<p>Reproductive Toxicity Data: Initiator has been shown to cause damage to the testes after repeated ingestions of high doses in animal studies. Acetone: In a reproductive study with acetone, rats were exposed to 0 to 6600 ppm of acetone for 6 hr/day on gestation days 6-17. No clinical signs of toxicity, maternal deaths, or effects on maternal body weights were observed. Fetal weights were lower and liver effects were noted in the animals exposed to 6600 ppm.</p>
<p>Specific Target Organ Toxicity (STOT): Single Exposure: In human volunteers, topical application of acetone for 30 or 90 minutes produced considerable damage to the skin, with a high degree of restoration after 72 hr. Repeated Exposure: Acetone: In a 13 week study, rats were give 2500, 5000, 10,000, 20,000 and 25000 ppm in drinking water. In animals given >5000 ppm, changes to the blood chemistry were observed. At >20,000 ppm, liver, kidney and spleen effects were observed. NOAEL 2500 ppm.</p>

12. ECOLOGICAL INFORMATION

<p>12.1 Toxicity: Acetone: 96 hr LC50 Pimephales promelas (Fathead minnow) 6210 mg/L, 48 hr LC50 daphnia cucullata 7630 mg/L 2-Hydroxyethyl Methacrylate: 96 hr LC50 Pimephales promelas (fathead minnows) 990 mg/L Initiator: 48 hr EC50 Oryzias latipes 1-10 mg/L, 48 hr EC50 daphnia magna 10-100 mg/L</p>
<p>12.2 Persistence and Degradability: Acetone: Readily biodegradable. Initiator: Poorly biodegradable (<20% in 28 days)</p>
<p>12.3 Bio-accumulative Potential: Acetone has a BCF of 3 which suggests the potential for bioaccumulation in aquatic animals is low.</p>
<p>12.4 Mobility in Soil: Acetone is expected to have very high mobility in soil.</p>
<p>12.5 Other Adverse Effects: No data available for product.</p>
<p>12.6 Results of PBT/vPvB Assessment: Not required</p>

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Regulations: Dispose in accordance with local and national environmental regulations.

Properties (Physical/Chemical) Affecting Disposal: None known.

Waste Treatment Recommendations: None known.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	UN1090	Acetone solution	3	PG II	No
ADR/RID	UN1090	Acetone solution	3	PG II	No
IMDG	UN1090	Acetone solution	3	PG II	Marine Pollutant-No
IATA/ICAO	UN1090	Acetone solution	3	PG II	No

14.6 Special precautions for user: Flammable Liquid

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product has an RQ of 7,143 lbs based on the RQ of acetone of 5,000 lbs present at <70%. Many other states have more stringent regulations. Report all spills in accordance with local, state, and federal regulations.

Toxic Substances Control Act (TSCA): All of the ingredients in this product are listed on the EPA TSCA Inventory.

Clean Water Act (CWA): None listed

Clean Air Act (CAA): None listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	Yes	Pressure Hazard:	No
Delayed Hazard:	Yes	Reactivity Hazard:	No
Fire Hazard:	Yes		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313

(40 CFR 372):

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS): Class B - Division 2 (Flammable Liquid), Class D - Division 2 - Subdivision B - (Toxic material causing other toxic effects: Carcinogen)

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

- F Highly Flammable
- Xi Irritant
- Xn Harmful
- R11 Highly flammable
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitization by skin contact.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapors may cause drowsiness and dizziness
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility

- Flamm. Liq. 2 Flammable Liquid Category 2
- Eye Irrit. 2 Eye Irritant Category 2
- STOT SE 3 Specific Target Organ Toxicity (Single Exposure) Category 3
- Skin Irrit. 2 Skin Irritation Category 2
- Skin Sens 1 Skin Sensitization Category 1
- Repro 1 Toxic to Reproduction Category 2
- Aquatic Chronic 2 Aquatic Chronic Category 2

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child
- H411 Toxic to aquatic life with long lasting effects

Date of SDS Preparation/Revision: 9 December 2011

Supersedes: 08 November 2012

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Date of SDS Preparation/Revision: 6 October 2014

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.