

SAFETY DATA SHEET

1. PRODUCTS AND COMPANY IDENTIFICATION

Product Name: AVM 680SC ACCELERATOR

Product Use: Catalyst (accelerator) for Polyurethane Deck Coating Materials

Manufacturer/Supplier

AVM Industries, Inc.
8245 Remmet Avenue
Canoga Park, CA 91304
www.avmindustries.com
Tel Number: (818) 888-0050

Emergency Contact:

Chemtrec (800) 424-9300

2. COMPONENT INFORMATION

Classification (GHS-US)

Flam. Liq. 4 H227
Skin Corr. 1C H314
Skin Irrit. 2 H317
Flam Liq. 2 H319
Aquatic Acute 3 H402

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Danger

Hazard Statements (GHS-US) :

H227 – Combustible liquid.
H314 – Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction.
H402 – Harmful to aquatic life..

Precautionary Statements (GHS-US) :

P210 - Keep away from heat sparks/open flames/hot surfaces.- No smoking.
P260 - Do not breathe dust fume/ gas/ mist vapors/ spray.
P264 - Wash skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce Vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P363 - Wash contaminated clothing 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 advice/ attention.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.

3. COMPONENT INFORMATION

Hazardous Components	Product Identifier	% (w/w)	Classification (GHS-US)
Isophorondiamine-isobutyraldimine	(CAS No) 54914-37-3	N/E	N/E

4. FIRST AID INFORMATION

Description of First Aid Measures

General: Take care of your own personal safety. Remove affected persons from the hazard area. Do not leave affected persons unattended. Remove contaminated or soaked clothing immediately and dispose of safely. Keep warm, position comfortably, and cover well.

Inhalation: Move victims into fresh air. With labored breathing: Provide with oxygen. Consult a doctor immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

Eye Contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist. **Ingestion:** Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice immediately. **Most Important Symptoms and Effects Both Acute and Delayed**

General: No further relevant information available.

Indication of Immediate Medical Attention and Special Treatment Needed

General: No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, foam, CO2, dry powder.

Unsuitable Extinguishing Media: High volume water jet.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Nitrogen oxides (NOx) carbon monoxide, carbon dioxide.

Fire and Explosion Hazards: Explosive mixtures may occur at temperatures at or above the flashpoint.

Advice for Firefighters

Fire Fighting Procedures: Exercise caution when fighting any chemical fire.

Protection During Firefighting: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHAINIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapors or spray mist.

Environmental Precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods and Materials for Containment and Cleaning Up

For Containment and Cleaning Up: Take up mechanically or with a non-combustible absorbent material. Suitable absorbents: diatomaceous earth Fill into marked, sealable containers. Remove all sources of ignition. Assure sufficient ventilation.

7. HANDLING AND STORAGE INFORMATION

Precautions for Safe Handling

General Handling: Avoid contact with skin, eyes and clothing. Avoid breathing vapors/dust/mist. Wash thoroughly after handling. Protect from moisture. Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Conditions for Safe Storage

General: Keep away from sources of ignition - No smoking. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks. The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Control Parameters

Appropriate Engineering Controls: Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT	
Eye/Face Protection:	Use chemical splash gloves and face shield.
Skin Protection:	A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR 1910.132) be conducted before using this product.
Respiratory Protection:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hand Protection:	Wear impervious gloves such as vinyl to minimize contact with skin.



Environmental Exposure Controls: If possible, use material transfer/filling, metering and blending plants that are closed. Provide for good ventilation if vapors/aerosols are formed. Use explosion-proof ventilation equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid	Color: Yellowish
Odor: Amine-like	Odor Threshold: Not applicable
pH: Not applicable	Melting Point: No test data available
Freezing Point: Not applicable	Boiling Point (760 mm Hg): 302°C
Density: 0.8675	Flash Point – Closed Cup: 86°C
Evaporation Rate (Butyl Acetate): Not applicable	Flammability (solid, gas): Not applicable
Flammability Limits in Air: Lower: No test data available; Upper: No test data available	Vapor Pressure: 20°C
Vapor Density (Air=1): Not applicable	Specific Gravity (H₂O=1): Not available
Solubility in Water (by weight): Not available	Explosion Limits: Not available
Volatiles: Not available	VOC: 50 g/l

10. STABILITY AND REACTIVITY INFORMATION

Reactivity: Under normal conditions: stable.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Auto-ignition may occur with cotton waste or similar combustible materials.

Conditions to Avoid: Not available

Incompatible Materials: Water. Oxidizing agents. Cotton waste or other combustible materials.

Hazardous Decomposition Products: Decomposition products in hydrolysis/thermal decomposition isophorone diamine, isobutyraldehyde

11. TOXICOLOGICAL INFORMATION (will only print available data)

Acute oral toxicity: LD50

Rat: 4150 mg/kg

Method:OECD Test

Guideline 401

Based on available data, the classification criteria are not met.

Acute inhalation toxicity: no data available

Acute dermal toxicity: LD50 Rat:

> 5000 mg/kg

Method:OECD Test

Guideline 402

Based on available data, the classification criteria are not met.

Skin irritation: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Method:OECD Test Guideline 404

Eye irritation: Rabbit

Irritating to eyes.

Method:OECD Test Guideline 405

Sensitization: (Magnusson-Kligman test) Guinea pig: The product is a skin sensitiser, sub-category 1A. Method:OECD Test Guideline 406 sensitizing to the respiratory tract: No data available

Repeated dose toxicity: no data available.

Assessment of STOT repeat exposure:

Genotoxicity in vitro:

Amestest not mutagenic

Method:OECD TG 471

chromosomal aberration

not mutagenic

Method:OECD TG 473

HGPRT-Test not mutagenic

Method:OECD TG 476

Carcinogenicity Assessment: The carcinogenic effect of the substance has not yet been determined in a long-term animal study. The substance is not genotoxic. Generally speaking, carcinogenic substances are genotoxic. Therefore, this type of carcinogenic effect can be considered improbable for this substance.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

Toxicity to fish: LC50 Dania rerio: > 100 mg/l 96 h Method: OECD TG 203

Toxicity in aquatic invertebrates: EC50 Daphnia magna: 14.7 mg/l/ 48 h
Method: OECD TG 202 NOEC Daphnia magna: 3 mg/l/ 21 d Method: OECD TG 202 isophorone diamine

Toxicity to algae: ErC50 Desmodesmus subspicatus: >100 mg/l Method: OECD TG 201 NOEC Desmodesmus subspicatus: 7.6 mg/l Method: OECD TG 201

EC50 Activated sludge: 302.4 mg/l 3 h Method: OECD TG 209

Persistence/Degradability:

Exposure time: 28 d

Result: 34 % Not readily biodegradable. Method: OECD TG 301 F

Bioaccumulation/ Accumulation:

Not available

Mobility in Environmental Media:

Not available

13. DISPOSAL INFORMATION

Waste Disposal Recommendations: Dispose of in accordance with local, state, and federal regulations.

Unused and Contaminated Product: Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORTATION INFORMATION

14.1 In Accordance with DOT

U.S. Department of Transportation (DOT)

Highway/Rail (Bulk): Amine, liquid, Corrosive, n.o.s. (Blocked diamine), 8, UN2735, PG III.

Highway/Rail (Non-Bulk): Amine, liquid, Corrosive, n.o.s. (Blocked diamine), 8, UN2735, PG III.

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.

International Information

Vessel: IMDG Regulated: IMDG Not Regulated

Air: ICAO Regulated: ICAO Not Regulated Other: No other information available

15. REGULATORY INFORMATION

International Inventories

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

USA (TSCA): listed/registered

Canada (DSL): listed/registered

Australia (AICS): listed/registered

Japan (MITI): listed/registered

Korea (KECI): listed/registered

Philippines: listed/registered (PICCS)

China: listed/registered

New Zealand: listed/registered

USA: listed/registered.

Federal Regulations:

OSHA

If listed below chemical specific standards apply to the product or components:

None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

Acute Health Hazard

Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act

None listed

Toxic Substances Control Act (TSA)

If listed below, non-proprietary substances are subject to export notification under Section 12(b) of TSCA:

None listed

State Regulations:

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

None listed

Canada

Canadian WHMIS

Classification

Class: B

Division: 3

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR).

This MSDS contains all the information required by the CPR.

Other Regulations: No other information available

16. OTHER INFORMATION

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

HMIS ratings – Health: 3 Flammability: 2 Reactivity: 1 Personal Protection: 0

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. This data and information is furnished upon the condition that the person receiving it shall make his own determination of the conditions for safe use of this product.

Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined

SDS Revision Date: 08/30/2016