

SAFETY DATA SHEET (SDS)



Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:
EX1138-2.5G

▶ Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)



EX1138 FROM ÅNGSTROMBOND 1

Adhesives

Advanced Polymers for High Tech Applications
SDS # EX1138 Part B

Safety Data Sheet

according to OSHA HCS

SDS #: EX1138 Part B
Issue Date: 1/18/2016

Section 1: Identification

GHS Product Identifier/Name ÅNGSTROMBOND® EX1138 PART B

Other means of identification
Product Code EX1138
Other means of identification EX1138 Part B

Recommended use of the chemical and restrictions on use
Identified Uses Curing agent, epoxy

Details of the supplier of the Safety Data Sheet
Supplier Address Fiber Optic Center, Inc.
23 Centre Street
New Bedford, MA 02740-6322 USA
Tel: 1-508-992-6464
Fax: 1-508-991-8876

Emergency Telephone CHEMTREC 1-800-424-9300 (24 hrs)
For product emergencies involving spill, leak, fire exposure or accident please contact CHEMTREC.
For all other inquiries please contact Fiber Optic Center, Inc.™ at 1-800-473-4237

Section 2: Hazard(s) Identification

Classification of the Substance or mixture:

Signal word: DANGER!

Acute Toxicity, Oral	Category 4
Skin Corrosion	Category 1B
Serious Eye Damage	Category 1
Skin Sensitization	Category 1

GHS Label Elements:
This product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard Pictograms:



Issue Date: 1/18/2016

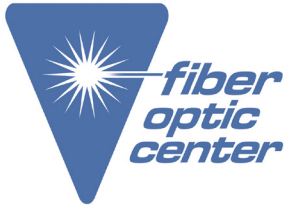
Revision Date:

Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com
508-992-6464 | (800) 473-4237 • sales@focenter.com



**Manufacturer:**

ÅngströmBond

Product Name:

ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:

EX1138-2.5G

▶ Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)



EX1138 FROM ÅNGSTRÖMBOND 2

ADHESIVES

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # EX1138 Part B

Section 2: Hazard(s) Identification

Continued

Hazard Statements:

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

Precautionary statements:**Prevention:**

P261 Avoid breathing dust fume/gas/mist/vapor/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P333+P313 If skin irritation or rash occurs: get medical advice/attention.
 P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents to appropriate local waste disposal center.

Other Hazards:

None

Section 3: Composition / Information on Ingredients**Substances:**

MATERIAL	CAS No.	%
Benzyl Alcohol	100-51-6	< 40
Isophoronediamine	2855-13-2	< 35
Cycloaliphatic Amine	Proprietary	< 40

Section 4: First-Aid Measures**Description of first aid measures:**

General advice: Seek medical advice

In case of eye contact - Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

In case of skin contact – Remove contaminated clothing/shoes and wash affected areas with water followed by washing with soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.

Issue Date: 1/18/2016

Revision Date:

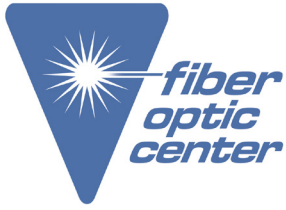
Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com





Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:
EX1138-2.5G

▶ [Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding \(2.5G\)](#)



EX1138 FROM ANGSTROMBOND 3

Adhesives

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # EX1138 Part B

Section 4: First-Aid Measures

Continued

If swallowed - DO NOT INDUCE VOMITING. Dilute with water or milk and call a physician immediately. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

If inhaled - Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

Target organs: Eyes, skin, respiratory system, liver, kidney, pancreas, spleen, central nervous system

Indication of any medical attention and special treatment needed:

Adverse eye effects such as conjunctivitis or corneal damage; eye disease. Can cause severe burns, blindness, irritation.

Section 5: Fire-Fighting Measures

Extinguishing Media-

Suitable extinguishing media:

Use water fog, alcohol foam, CO2 or dry chemical extinguishing media.

Special hazards arising from the substance or mixture:

Carbon oxides, toxic nitrogen oxide gases.

Advice for firefighters:

Material will not burn unless preheated. Firefighters should not enter confined space without full bunker gear (helmet with face shield, bunkercoats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

Further information:

Not available

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Extinguish all sources of ignition. Wear appropriate clothing, gloves, goggles or glasses. Provide adequate ventilation.

Environmental Precautions:

Do not discharge into any sewage system or waterway.

Methods and materials for containment and cleanup:

Absorb with earth, sand, or other inert material and place in suitable containers for disposal.

Reference to other sections:

For disposal see section 13.

Issue Date: 1/18/2016

Revision Date:

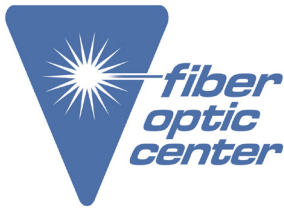
Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



**Manufacturer:**

ÅngströmBond

Product Name:

ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:

EX1138-2.5G

▶ [Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding \(2.5G\)](#)



ÅNGSTRÖMBOND®

EX1138 FROM ÅNGSTRÖMBOND 4

Adhesives

Advanced Polymers for High Tech Applications

SDS # EX1138 Part B

Section 7: Handling and Storage**Precautions for safe handling:**

Observe normal standards of industrial hygiene for handling chemicals. Avoid contact with skin and eyes

Conditions for safe storage, including incompatibilities:

Store in a cool, dry, well ventilated area. Keep containers tightly closed and away from heat, direct sunlight and ignition sources.

Specific end uses:

Curing agent

Section 8: Exposure Controls / Personal Protection**Control Parameters:****Components with control parameters**

MATERIAL	LIMIT VALUES
Benzyl Alcohol	TWA: 10 ppm/44.2 mg/m ³

“*” Indicates that this material is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 et. seq. if present at greater than 1%.

-All ingredients are listed on the TSCA inventory

Exposure controls-**Appropriate engineering controls:**

Mechanically exhaust vapors at points of application. Maintain airborne contaminant levels of chemicals below their recommended TLV's or PEL's.

Personal protective equipment-**Skin Protection:**

Avoid prolonged or repeated contact with skin. Wear impervious gloves such as nitrile, latex, or polychloroprene and other clothing to prevent contact.

Respiratory Protection:

For confined areas or areas with poor ventilation, use an approved cartridge type, organic vapor respirator. Use extreme caution when spraying or aerosolizing this product.

Eye Protection:

Chemical goggles or safety glasses with side shields

Protective Clothing:

Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.

Section 9: Physical and Chemical Properties**Information on basic physical and chemical properties:**

a) Appearance	
Form:	Viscous Liquid
Color:	Yellow
b) Odor:	Amine-like odor
c) Odor Threshold	Not determined
d) pH	Alkaline
e) Melting/Freezing point	Not determined
f) Boiling Point	> 200°C
g) Flash Point	> 90°C
h) Evaporation Rate	Not determined
i) Flammability (solid, gas)	Not determined

Issue Date: 1/18/2016

Revision Date:

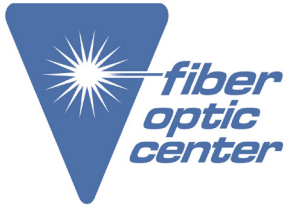
Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com





Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:
EX1138-2.5G

▶ Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)



EX1138 FROM ÅNGSTRÖMBOND 5

ADHESIVES

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # EX1138 Part B

Section 9: Physical and Chemical Properties

Continued

j) Upper/Lower Flammability Limits	Upper: Not determined Lower: Not determined
k) Vapor Pressure @ 20°C	Not determined
l) Vapor Density	Heavier than air
m) Specific Gravity (water=1):	0.99
n) Solubility in Water	< 0.1 g/L (literature)
o) Partition coefficient: n-octanol/water	Not determined
p) Auto-ignition Temperature	Not determined
q) Decomposition Temperature	Not determined
r) Viscosity (25°C)	Not determined
s) Explosive Properties	Not determined
t) Oxidizing Properties	Not determined
u) Volatiles (by % wt.)	Negligible

Other safety information: No data available

Section 10: Stability and Reactivity

Reactivity:

No data available

Chemical Stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Can react vigorously with strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

Conditions to avoid:

Storage in open containers, sources of ignition, high temperatures and direct sunlight.

Incompatible materials:

Strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

Hazardous decomposition products:

Carbon monoxide, aldehydes, acids, and other organic substances can be formed during combustion, thermal, or oxidative decomposition. Reaction with some curing agents may produce considerable heat.

Section 11: Toxicological Information

No data available. No ingredient(s) of this product are known carcinogens to humans.

Section 12: Ecological Information

Toxicity:

No data available

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Results of PBT and vPvB assessment:

No data available

Other information/effects:

Do not allow discharge into drains and waterways. Avoid ground contamination.

Issue Date: 1/18/2016

Revision Date:

Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:
EX1138-2.5G

▶ [Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding \(2.5G\)](#)



EX1138 FROM ANGSTROMBOND 6

Adhesives

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # EX1138 Part B

Section 13: Disposal Considerations

Waste treatment methods:

Place in an appropriate disposal facility in compliance with local regulations.

Section 14: Transport Information

UN number:

2735

UN proper shipping name:

DOT: Amines, liquid, corrosive, n.o.s.

ADR/RID: Amines, liquid, corrosive, n.o.s.

IMG: Amines, liquid, corrosive, n.o.s.

IATA: Amines, liquid, corrosive, n.o.s.

Transport hazardous class(es):

8

Packaging group:

III

Environmental hazards:

None

Special precautions for user:

None

Section 15: Regulatory Information

This safety datasheet complies with GHS formatting

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations:

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and of the Code of Federal Regulations, Part 372.

Component	CAS	Weight %
None		

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

State Regulations:

California Proposition 65

This product contains NO chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Safety Assessment

No data available

Issue Date: 1/18/2016

Revision Date:

Data is subject to change without notice.

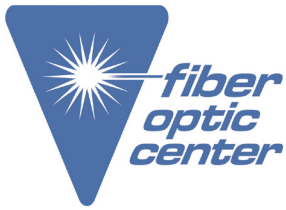
Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

ÅngströmBond

Product Name:

ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding (2.5G)

Manufacturer Part Number:

EX1138-2.5G

▶ [Click here for more details on the ÅngströmBond EX1138 Flexible epoxy/urethane for Plastic Bonding \(2.5G\)](#)



EX1138 FROM ÅNGSTRÖMBOND 7

Adhesives

ADVANCED POLYMERS FOR HIGH TECH APPLICATIONS

SDS # EX1138 Part B

Section 16: Other Information

HMIS Ratings: H – 3 F – 1 R – 0

To the best of our knowledge, the information contained herein is accurate and meets all State and Federal guidelines. However, Fiber Optic Center, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user.

SDS Creation Date: 1/18/2016

SDS Revision Date:

Reason for Revision: Update information for GHS format

For more information: phone: 1-800-473-4237, fax: 1-508-991-8876

Prepared by Fiber Optic Center, Inc.

ÅNGSTRÖMBOND® is a REGISTERED TRADEMARK of FIBER OPTIC CENTER, INC., NEW BEDFORD MA, USA

Fiber Optic Center™, Inc. MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS OR OTHERWISE, with respect to its products. In addition, while the information herein is believed to be reliable, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. All recommendations or suggestion for use are made without guarantee – inasmuch as conditions of use are beyond our control. The properties given are typical values, and are not intended for use in preparing specifications. Users should make their own test to determine the suitability of this product for their own purposes. This warranty is limited to a credit or replacement of the product only, and does not cover direct, indirect, consequential, incidental or any other type of damage resulting from the use of the product.

Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com

