

Product 8040A
 Revision Date 12/07/2020
 Revision 1



Safety Data Sheet (SDS)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name 8040A
Synonyms, Trade Names No information available.

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

Identified Uses Vacuum casting.
Uses Advised Against No uses advised against are identified.

1.3 Details of the Supplier of the Safety Data Sheet

Supplier Scott AM Ltd
 4 Holding
 Beechcliffe Lane
 Tittensor, Stoke-on-Trent
 ST12 9HP
 United Kingdom
 Tel: +44 (0) 1782 367625 (during UK office hours 09:00 to 17:00 UTC).
 sales@scott-am.com

Contact Person

1.4 Emergency Telephone Number

Emergency Telephone 999 / 911 or local emergency number.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (EC 1272/2008)
 Physical and Chemical Hazards Not classified
 Human Health Acute Tox 4 - H302, Acute Tox 4 - H312, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Muta. 1B - H340, Carc. 1B - H350, STOT SE 3 - H335
 Environment Not classified

2.2 Label Elements

Contains propylene oxide 1,2-epoxypropane methyloxirane
 allyl alcohol

Label in Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H340 May cause genetic defects .
 H350 May cause cancer .

Precautionary Statements**Prevention**

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other Hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substance**

Not applicable.

3.2 Mixtures

Name	Product Identifier	GHS Classification	%
propylene oxide 1,2-epoxypropane methyloxirane	CAS-No.: 75-56-9 EC No.: 200-879-2	Flam. Liq 1- H224, Acute Tox 4 - H302, Acute Tox 4 - H312, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Acute Tox 4 - H332, STOT SE 3 - H335, Muta. 1B - H340, Carc. 1B - H350	30-60%
propane-1,2-diol	CAS-No.: 57-55-6 EC No.: 200-338-0		1-10%
allyl alcohol	CAS-No.: 107-18-6 EC No.: 203-470-7	Flam. Liq 2- H225, Acute Tox 3 - H301, Acute Tox 2 - H310, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Acute Tox 3 - H331, STOT SE 3 - H335, Aquatic Acute 1 - H400	0-1%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5		0-1%

The Full Text for all Hazard Statements Are Displayed in Section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES**4.1 Description of First Aid Measures****General Information**

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

Inhalation

If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion

Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Induce vomiting only when directed by medical personnel and person is conscious. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head low and/or keep airway clear. If swallowed, seek medical advice immediately and show the container or label.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with mild soap and water. Get medical attention promptly if symptoms occur after washing.

Eye Contact

Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Avoid contaminating unaffected eye. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed**General Information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation	Harmful if inhaled. Inhalation may cause respiratory irritation.
Ingestion	No specific symptoms noted. Harmful if swallowed. May cause digestive tract irritation, pain or vomiting.
Skin Contact	Causes skin irritation. Harmful in contact with skin.
Eye Contact	Causes serious eye irritation.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to the Physician	Treat symptomatically.
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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Dry chemical, carbon dioxide, chemical foam and water spray.
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher.

5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products	In case of fire, toxic gases(CO, CO ₂ ,) may be formed.
Unusual Fire & Explosion Hazards	No unusual fire or explosion hazards noted.
Specific Hazards	If heated, harmful vapours may be formed. Floors may become slippery, avoid falls.

5.3 Advice for Firefighters

Special Fire Fighting Procedures	For initial fire, use dry chemical, carbon dioxide or dry sand. In case of a massive fire, use foam extinguisher. If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective Equipment for Firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Wash hands after contact. Read and follow manufacturer's recommendations. Do not touch or walk through spilled material. If necessary evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
For Emergency Responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental Precautions

Environmental Precautions	Do not discharge into drains, water courses or onto the ground. Do not allow ANY environmental contamination.
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6.3 Methods and Material for Containment and Cleaning Up

Spill Clean Up Methods	DO NOT touch spilled material! Wear necessary protective equipment. Ventilate and evacuate the area. Eliminate all sources of ignition. Use non-sparking tools or equipment for clean up. In case of a large scale of spill, dyke area with sand to stop the spill spreading. After recovery of spilled liquid, do not close container tightly - remove to a safe well ventilated area. Neutralize by dispersing neutralizing agent and absorb with sand. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible. Wash work area with water. Wash thoroughly after dealing with a spillage. Remove waste promptly to a safe area.
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6.4 Reference to Other Sections

Reference to Other Sections See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling Use proper personal protection when handling (refer to Section 8). Provide good ventilation. Wear appropriate respirator when ventilation is inadequate. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours. Avoid contact with skin and eyes. Do not use contact lenses. Avoid prolonged or repeated contact. Read and follow manufacturer's recommendations. Do not mix with other chemicals. Pregnant women should not work with the product, if there is the least risk of exposure.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Precautions Keep locked up and out of reach of children. Keep away from heat, sparks, direct sunlight and open flames. Avoid contact with water, amine compounds and polyol reacting with isocyanate. Store in tightly closed original container in a dry, cool and well-ventilated place. After opening containers, replace with dry nitrogen or dry air and tightly seal the container to prevent leaks. To avoid static electricity, ground equipment.

Storage Class Hazardous material storage.

7.3 Specific End Use(s)

Specific End Use(s) The identified uses for this product are detailed in Section 1.

Usage Description Use only according to directions. Replace and tighten cap after use. Avoid static build up by suitable earthing arrangements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
propylene oxide 1,2-epoxypropane methyloxirane	WEL	5ppm	12mg/m3			
propane-1,2-diol	WEL		10mg/m3			
propane-1,2-diol	WEL	150ppm	474mg/m3			
allyl alcohol	WEL	2ppm	4mg/m3	4ppm	9mg/m3	
allyl alcohol	NIOSH	2ppm	5mg/m3	4ppm	10mg/m3	NIOSH
titanium dioxide	WEL		10mg/m3			
titanium dioxide	WEL		4mg/m3			

Ingredient Comments WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits. The National Institute for Occupational Safety and Health (NIOSH).

8.2 Exposure Controls

Protective Equipment



Engineering Measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Facilities for handling this product should be closed system. Ensure surfaces and floors are made from non-permeable material. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to

Respiratory Equipment

	<p>engineering controls. Recommended: Respirator with combination filter for organic vapour/particulate (EN 141). Consult manufacturer for specific advice.</p> <p>If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).</p>
Hand Protection	<p>Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. Gloves must be inspected prior to use.</p> <p>Use suitable organic solvent resistant gloves if there is a risk of skin contact. Suggested material: Use neoprene, butyl or nitrile rubber gloves to minimize skin contact. Consult manufacturer for specific advice.</p> <p>Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.</p>
Eye Protection	<p>Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).</p>
Other Protection	<p>Select appropriate protective clothing based on chemical resistance data and an assessment of local exposure potential.</p> <p>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. The selected clothing must satisfy the European norm standard EN 943.</p>
Hygiene Measures	<p>Wash promptly if skin becomes contaminated. Handle in accordance with good industrial hygiene and safety practice. DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet.</p>
Process Conditions	<p>Use only according to directions. Keep container tightly sealed when not in use. Ensure that eye flushing systems are located close by in the work place.</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance	Liquid.
Colour	Milky white.
Odour	Weak.
Odour Threshold - Lower	No information available.
Odour Threshold - Upper	No information available.
pH-Value, Conc. Solution	No information available.
pH-Value, Diluted Solution	No information available.
Melting Point	No information available.
Initial Boiling Point and Boiling Range	No information available.
Flash Point	> 188.00 °C
Evaporation Rate	No information available.
Flammability State	No information available.
Flammability Limit - Lower(%)	No information available.
Flammability Limit - Upper(%)	No information available.
Vapour Pressure	No information available.
Vapour Density (air=1)	No information available.
Relative Density	1.05g/cm ³ @ 20.00 °C
Bulk Density	No information available.
Solubility	Soluble in water. Soluble in organic solvents.

Decomposition Temperature	No information available.
Partition Coefficient; n-Octanol/Water	No information available.
Auto Ignition Temperature (°C)	No information available.
Viscosity	No information available.
Explosive Properties	Not classified as explosive.
Oxidising Properties	No information available.

9.2 Other Information

Molecular Weight	No information available.
Volatile Organic Compound	No information available.
Other Information	None noted.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity	Stable under recommended transport and storage conditions and under recommended use.
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10.2 Chemical Stability

Stability	Relatively stable when stored in a cool and dark place.
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10.3 Possibility of Hazardous Reactions

Hazardous Reactions	None under normal processing.
Hazardous Polymerisation	No information available.
Polymerisation Description	Unknown.

10.4 Conditions to Avoid

Conditions to Avoid	Fire and high temperature.
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10.5 Incompatible Materials

Materials to Avoid	Keep away from incompatibles such as oxidizing agents, acids, alkalis.
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10.6 Hazardous Decomposition Products

Hazardous Decomposition Products	When heated, vapours/gases hazardous to health may be formed. Combustion produces toxic gases such as carbon monoxide.
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	Methyloxirane (CAS 75-56-9): 520 mg/kg bw (rat).
Acute Toxicity (Dermal LD50)	Methyloxirane (CAS 75-56-9): >= 950 - <= 1 250 mg/kg bw (rabbit).
Acute Toxicity (Inhalation LD50)	Methyloxirane (CAS 75-56-9): 4124 mg/m ³ air (Mouse).
Serious Eye Damage/Irritation	Causes serious eye irritation.
Skin Corrosion/Irritation	No information available.
Respiratory Sensitisation	No information available.
Skin Sensitisation	No information available.

Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No information available.
Inhalation	Harmful if inhaled. Inhalation may cause respiratory irritation.
Ingestion	No specific symptoms noted. Harmful if swallowed. May cause digestive tract irritation, pain or vomiting.
Skin Contact	Causes skin irritation. Harmful in contact with skin.
Eye Contact	Causes serious eye irritation.
Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product Curing in large quantities or under improper conditions may cause fire. Dispose of without curing and mixing with other materials. Do not discharge wastewater used for washing of container and equipment into ground or drain without treatment.
Routes of Entry	No information available.
Target Organs	Eyes, skin, digestive system, respiratory system.
Aspiration Hazards:	
Reproductive Toxicity:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Toxicity - Fish	No information available.
Acute Toxicity - Aquatic Invertebrates	No information available.
Acute Toxicity - Aquatic Plants	No information available.
Acute Toxicity - Microorganisms	No information available.
Chronic Toxicity - Fish	No information available.
Chronic Toxicity - Aquatic Invertebrates	No information available.
Chronic Toxicity - Aquatic Plants	No information available.
Chronic Toxicity - Microorganisms	No information available.
Ecotoxicity	No Ecological information on the finished product.
Eco Toxilogical Information	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and Degradability

Degradability	No information available.
Biological Oxygen Demand	No information available.
Chemical Oxygen Demand	No information available.

12.3 Bioaccumulative Potential

Bioaccumulative Potential	No data available on bioaccumulation.
Bioaccumulation Factor	No information available.
Partition Coefficient; n-Octanol/Water	No information available.

12.4 Mobility in Soil

Mobility	No information available.
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12.5 Results of PBT and vPvB Assessment

Results of PBT and vPvB Assessment	No information available.
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12.6 Other Adverse Effects

Other Adverse Effects	No information available.
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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product Curing in large quantities or under improper conditions may cause fire. Dispose of without curing and mixing with other materials. Do not discharge wastewater used for washing of container and equipment into ground or drain without treatment.
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13.1 Waste Treatment Methods

Disposal Methods	Dispose of in accordance with national and local regulations for special waste via an appropriately licensed waste contractor.
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SECTION 14: TRANSPORT INFORMATION**14.1 UN Number**

UN No. (ADR)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (IATA)	Not applicable.

14.2 UN Proper Shipping Name

ADR Proper Shipping Name	Not applicable.
IMDG Proper Shipping Name	Not applicable.
IATA Proper Shipping Name	Not applicable.

14.3 Transport Hazard Class(es)

ADR Class	Not applicable.
IMDG Class	Not applicable.
IATA Class	Not applicable.

Transport Labels	Not applicable
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14.4 Packing Group

ADR/RID/ADN Packing Group	Not applicable.
IMDG Packing Group	Not applicable.
IATA Packing Group	Not applicable.

14.5 Environmental Hazards

ADR	No
IMDG	No
IATA	No

14.6 Special Precautions for User

EMS	Not applicable.
Emergency Action Code	Not applicable.
Hazard No. (ADR)	Not applicable.
Tunnel Restriction Code	Not applicable.

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

EU Legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety
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Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

Approved Code of Practice Workplace Exposure Limits Guidance Note EH40/2005.

Chemical Safety Assessment No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General Information This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision Comments This is a first issue.
Revision Date 12/07/2020
Revision 1
Safety Data Sheet Status Approved.

Hazard Statements In Full

H224 Extremely flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H340 May cause genetic defects [*].
H350 May cause cancer [*].
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.