HAWK RESEARCH LABORATORIES, LLC.
High Performance Coating Systems

SAFETY DATA SHEET

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

1.1 Product Identifier

Product Name: GlasTech Lo 9000 Catalyst

Product Code: 94401Lo, 94404Lo

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

Identified Uses: 2-pack performance coating

1.3 Details of the supplier of the safety data sheet

Company Identification:
Hawk Research Laboratories, LLC.
7150 Capitol Drive
Wheeling, IL 60090
Telephone: 630.227.0050
Email: info@hawklabs.com

Supplied by:

Customer information: +353 86 100 1972
safety@hawklabs.com

1.4 Emergency Telephone Number

24-Hour Contact: +1.813.248.0585

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Classification	Category	Hazard Code
Flammable Liquids	2	H225
Skin Sensitization	1	H317
Eye Damage	2A	H319
Acute Toxicity: Inhalation	4	H332
Specific Target Organ Toxicity: Single Exposure	3	H335

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard Symbols (Pictograms):

Signal Word: WARNING

Hazard statements:

H225: Highly flammable liquid and vapour
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation

Precautionary Statements:

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting/…] equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P264: Wash thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.

Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370+P378: In case of fire: Use water spray, dry chemical, carbon dioxide, or foam to extinguish.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/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 advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

Contains: Methyl Acetate, Hexane, 1,6-Diisocyanato-, Homopolymer, n-Butyl Acetate

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

This product is a mixture.

Chemical Name	CAS Number	EC Number Index Number	Weight%	Classification
Methyl Acetate	79-20-9	201-185-2	65-90	Flammable Liquid, 2, H225 Eye Damage, 2A, H319 STOT SE, 3, H336
Hexane, 1,6-Diisocyanato-, Homopolymer	28182-81-2	500-060-2	20-40	Acute Tox, 3, H331 Resp Sensitization, 1, H334 Skin Sensitization, 1, H317 STOT SE, 3, H335
n-Butyl Acetate	123-86-4	204-658-1	5-20	Flammable Liquid 3 H226 STOT SE 3 H336 Acute Aquatic 3 H402

The exact percentage is withheld as trade secret. Other components are below reportable levels or are non-hazardous.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: First aid responders should use the recommended protective clothing. Refer to Section 8 for specific personal protective equipment.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: In case of contact, flush eyes gently with lukewarm water. Ensure that eyelids are separated while rinsing. Get medical attention.

Skin Contact: In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Ingestion: If ingested, do not induce vomiting unless directed by medical personnel. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under the First Aid Measures (above) and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicological Information

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically. No specific antidote available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Water spray, alcohol resistent foam, dry chemical, or carbon dioxide

5.2 Special hazards arising from the substance/mixture

Highly flammable liquid and vapour. Vapours may cause a flash fire or explosion. Vapours can travel to source of ignition and flash back. Closed containers may explode under extreme heat.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting, if necessary. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Immediately turn off or isolate any sources of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Only trained and properly protected personnel should be involved in clean up procedures. Use appropriate safety equipment.

6.2 Environmental precautions

Do not allow substance to enter soil, ditches, sewers, waterways or groundwater. CAUTION: If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will also be regulated.

6.3 Methods and materials for containment and cleaning up

Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spills, once contained, may be picked up using explosion-proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers.
If a large spill occurs, notify the appropriate authorities. In case of spill or accident, contact CHEMTEL at +1.813.248.0585.

6.4 Reference to other sections

References to other sections, have been cited in previous subsections.

SECTION 7: HANDLING AND STORAGE

7.1 Safe handling

Open containers carefully and in a well-ventilated area, using appropriate respiratory protection. Wash hands thoroughly after handling. Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers may contain product residue which may exhibit hazardous properties; therefore, do not pressurise, cut, glaze, weld or use for any other purpose.

7.2 Conditions for safe storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame, or oxidising materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.

7.3 Specific end uses

See technical data sheet on this product for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	Regulation	Type of Listing	Value
Methyl Acetate	ACGIH	TWA	200 ppm
Hexane, 1,6-Diisocyanato-, Homopolymer	None		
n-Butyl Acetate	ACGIH	TWA	150 ppm

8.2 Exposure controls

Avoid creating dust or mist. Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Use explosion-proof ventilation equipment. Do not use in closed and confined spaces. keep all levels below exposure limits. Perform regular monitoring to ensure exposure limits are not exceeded.

Personal Protective Equipment (PPE)

Eye/Face Protection:

Use safety eyewear with splash guards and side shields. Use additional eye protection, such as chemical safety goggles when the possibility for eye contact from splashing, spraying liquid, or airborne material exists.

Skin Protection:

Avoid contact with this product. Wear appropriate protective gloves and clothing to prevent skin exposure. Use proper glove and clothing remove techniques to avoid skin contact with this product. When handling large quantities, eye wash stations and deluge showers should be available.

Respiratory Protection:

Do not breathe vapours. When concentrations exceed the established limits, wear an appropriate, properly fitted respiratory until vapours are exhausted. Use of an air-purifying or positive-pressure self-contained breathing apparatus is recommended. For emergency situations, use a positive-pressure self-contained breathing apparatus.

General Hygiene Measures:

When using this product, do not eat or drink. Wash hands with soap and water before breaks and at the end of each workday. Avoid contact with contaminated clothing and protective clothing. Wash before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

Appearance (Physical State/Colour): Liquid/pale yellow
Odor: Mild odor
Odor Threshold: Not determined
pH Not applicable
Melting Point: Not determined
Boiling Point: > 100°C
Flash Point: -12°C
Evaporation Rate: Not determined
Flammability (solid, gas) Not applicable to liquids
Lower and Upper Explosive Limits: Not determined
Vapour Pressure: Not determined
Vapour Density: Not determined

Relative Density:	0,99
Solubility:	Partial
Partition Coefficient: n-octanol/water:	Not determined
Auto-ignition Temperature:	Not determined
Viscosity:	Not determined
Explosive Properties:	No data available
Oxidising Properties:	No data available

9.2 Other information

Molecular Weight:	No data available
Molecular Formula:	Not applicable (mixture)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur

10.4 Conditions to avoid
Heat, sparks, and flames

10.5 Incompatible materials
Strong oxidising agents

10.6 Hazardous decomposition products
Thermal decomposition may produce oxides of carbon

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute Oral Toxicity:	LD50 > 5000 mg/kg
Acute Dermal Toxicity:	LD50 > 5000 mg.kg
Acute Inhalation Toxicity:	Harmful if inhaled

Skin corrosion/irritation: No adverse effects known

Serious eye damage/eye irritation: Causes serious eye irritation

Respiratory or skin sensitisation: May cause an allergic skin reaction

Germ Cell Mutagenicity: No data available

Carcinogenicity: The following chemical(s) comprise 0,1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by the National Toxicology Program (NTP) or the International Agency for Research on Cancer (IARC):

CAS Number	Chemical Name	Carcinogen Rating
None		

Reproductive toxicity: No data available

Specific target organ system toxicity:
Single exposure: May cause respiratory irritation
Repeated exposure: No data available

Aspiration hazard: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Component Ecotoxicity

Methyl Acetate	96h Fathead minnow LC50 320-399 mg/L 48h daphnia EC50 1027 mg/L
n-Butyl Acetate	96h Lepomis marcochirus LC50 100 mg/L (static) 72h Desmondesmus subspicatus EC50 674 mg/L

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance has not been assessed for persistence, bioaccumulation and toxicity.

12.6 Other adverse effects

None known

12.7 Additional information

No other information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This product, when being disposed of in its unused and uncontaminated state, should be treated as a hazardous waste when disposed according to Directive 2008/98/EC. Disposal practices must comply with all national and

provincial laws, including those governing hazardous waste. Waste characterisations and compliance shall be determined by the waste generator. Dispose of in a licensed facility.

Do not discharge product into sewer system, on the ground or into any body of water.

SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**	UN1263
14.2	**UN proper shipping name**	Paint Related Material
14.3	**Transport hazard class(es)**	Class 3
14.4	**Packing group**	PGII
14.5	**Environmental hazards**	Not considered environmentally hazardous based on available data
14.6	**Special precautions for users**	No data available
14.7	**Bulk transport information**	Consult IMO regulations before transporting ocean bulk

This information is not intended to cover all specific regulatory or operational requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by country regulations. Additional transportation information can be obtained through a customer service representative.

SECTION 15: REGULATORY INFORMATION

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

REACh Regulation (EC) No 1907/2006
This product contains only components that have either been preregistered, registered, exempt from registration, regarded as registered, or not subject to registration according to Regulation (EC) No 1907/2006 (REACH). Polymers are exempted from REACH registration.

15.2 Chemical safety assessment
Not applicable

SECTION 16: OTHER INFORMATION

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Hawk Research Laboratories, LLC (Seller) makes no representations as to the completeness or accuracy thereof. Seller has prepared this document using data from sources considered to be technically reliable and accurate. Information is supplied upon the condition that persons receiving it will make their own determination as to its suitability for their purpose prior to use. In no event will Seller be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties either expressed or implied, or merchantability, fitness for a particular purpose in any other nature are made hereunder with respect to information for the product to which information refers.

Recommended use of the chemical and restrictions of use:

Because many of the conditions are within the user's knowledge and control, it is essential that the user evaluate and determine whether the product is suitable and appropriate for an intended application, and complies with all local applicable laws, regulations, standards, and guidance.