



SAFETY DATA SHEET

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

1.1 Product Identifier

Product Name: Isofree Plus Lo Clear Resin

Product Code: 65051Lo, 65054LoMQ

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

Identified Uses: 2-pack reactive 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

Customer information:

Supplied by:

+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	3	H226
Aspiration Hazard	1	H304
Skin Corrosion	2	H315
Eye Damage	1	H318
Acute Toxicity: Inhalation	4	H332
Specific Target Organ Toxicity: Single Exposure	3	H335
Carcinogenicity	2	H351
Specific Target Organ Toxicity: Repeated Exposure	2	H373

2.2 Label elements

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

Hazard Symbols (Pictograms):



Signal Word: DANGER

Hazard statements:

- H226: Flammable liquid and vapour
- H304: May be fatal if swallowed and enters airways
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H351: Suspected of causing cancer
- H373: May cause damage to organs through prolonged or repeated exposure

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.
- P264: Wash thoroughly after handling.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378: In case of fire: Use water fog, foam, dry chemical, or carbon dioxide to extinguish.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331: Do NOT induce vomiting.
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P332+P313: If skin irritation 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.
- P310: Immediately call a POISON CENTER/doctor.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER/doctor if you feel unwell.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P314: Get medical advice/attention if you feel unwell.



Storage:

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

Disposal:

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

Contains: Xylene, n-Butyl Acetate, n-Butanol, Ethyl 3-Ethoxypropionate, Ethylbenzene, Propylene Glycol Monomethyl Ether

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
n-Butyl Acetate	123-86-4	204-658-1	20-30	Flammable Liquid 3 H226 STOT SE 3 H336 Acute Aquatic 3 H402
Xylene	1330-20-7	215-535-7	10-20	Flammable Liquid, 3, H226 Acute Toxicity 4 H332 Skin Irritant 2 H315
n-Butanol	71-36-3	200-751-6	5-10	Flammable Liquid, 3, H226 Acute Toxicity, 4, H302 Skin Irritant, 2, H315 Eye Damage, 1, H318 STOT SE, 3, H335, H336
Ethyl 3-Ethoxypropionate	736-69-9	NA	5-10	Flammable Liquid, 3, H226 Eye Damage, 2B, H320
Ethylbenzene	100-41-4	202-849-4	1-10	Flammable Liquid 2 H225 Acute Toxicity 4 H332 Carcinogenicity 2 H351 STOT RE 2 H373 Aspiration 1 H304 Acute Aquatic 2 H401 Chronic Aquatic 3 H412
Propylene Glycol Monomethyl Ether	107-98-2	203-539-1	1-5	Flammable Liquid, 3, H226 STOT SE, 3, H336

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:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, begin CPR.
- Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, also under eyelids. If irritation develops or persists, seek medical attention.
- Skin Contact:** Immediately remove contaminated clothing and shoes. Wash affected area with plenty of soap and water. Launder clothing prior to reuse. If symptoms occur, seek medical attention.
- Ingestion:** Do not induce vomiting. Call a physician/poison control center immediately for further instructions. Never give anything by mouth to an unconscious person. Rinse out mouth with water. Get medical attention immediately.

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 fog, foam, dry chemical, or carbon dioxide

5.2 Special hazards arising from the substance/mixture

Flammable liquid and vapour. Keep container tightly closed. Isolate the product from heat, electrical equipment, sparks, and open flame.

5.3 Advice for firefighters

Wear self-contained breathing apparatus equipped with full face piece and operated in a pressure demand mode. Fog nozzles are preferred.

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
Xylene	ACGIH	TWA	100 ppm
n-Butyl Acetate	ACGIH	TWA	150 ppm
n-Butanol	ACGIH	TWA	20 ppm
Ethyl 3-Ethoxypropionate	ACGIH	TWA	50 ppm
Ethylbenzene	ACGIH	TWA	20 ppm
Propylene Glycol Monomethyl Ether	ACGIH	TWA	50 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):	Viscous liquid/clear
Odor:	Aromatic
Odor Threshold:	Not determined
pH	Not applicable
Melting Point:	Not determined
Boiling Point:	56°C
Flash Point:	25°C
Evaporation Rate:	Not determined
Flammability (solid, gas)	Not applicable to liquids
Lower and Upper Explosive Limits:	1,1; 12, 8
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Relative Density:	0,85
Solubility:	Insoluble
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

Avoid excessive heat

10.5 Incompatible materials

Strong acids, bases, strong oxidisers, and amines

10.6 Hazardous decomposition products

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute Oral Toxicity: No data available
Acute Dermal Toxicity: Causes skin irritation
Acute Inhalation Toxicity: Harmful if inhaled

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye damage

Respiratory or skin sensitisation: May cause respiratory irritation

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
100-41-4	Ethylbenzene	IARC: Possible human carcinogen

Reproductive toxicity: No data available

Specific target organ system toxicity:

Single exposure: May cause respiratory irritation
Repeated exposure: May cause damage to organs through prolonged or repeated exposure

Aspiration hazard: May be harmful if swallowed and enters airways

SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity
Component Ecotoxicity**



Xylene	96h Pimephales promelas LC50 13.4 mg/L (flow-through) 96h Cyprinus carpio LC50 780 mg/L (semi-static) 48h Water flea EC50 3,82 mg/L
n-Butyl Acetate	96h Lepomis marchochirus LC50 100 mg/L (static) 72h Desmondesmus subspicatus EC50 674 mg/L
n-Butanol	96h Fathead minnow LC50 1376 mg/L
Ethyl 3-Ethoxypropionate	96h Fish LC50 61 mg/L
Ethylbenzene	96h Pimephales promelas LC50 7,55-11 mg/L (flow-through) 48h Daphnia magna EC50 1,8-2,4 mg/L
Propylene Glycol Monomethyl Ether	96h Salmon LC50 1000 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 product 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
14.3	Transport hazard class(es)	Class 3



14.4	Packing group	PGIII
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.