



SAFETY DATA SHEET

Issuing Date: No data available

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Version: 1

1. IDENTIFICATION

Product Identifier

Product Name BLACK TOOLING
Description POLYCOR

Other means of identification

Product Code(s) 945B201

Recommended use of the chemical and restrictions on use

Identified uses Industrial.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Polynt Composites USA Inc
99 East Cottage Avenue
Carpentersville, IL 60110
Tel: (847) 428-2657

Emergency telephone number

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye Irritation	Category 2
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity (Repeated Exposure)	Category 1
Flammable Liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard Statements

- HARMFUL IF SWALLOWED
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause genetic defects
- May cause cancer
- Suspected of damaging fertility or the unborn child
- Causes damage to organs through prolonged or repeated exposure
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- Flammable liquid and vapor



Appearance
Black

Physical State
Liquid

Odor
Moderate aromatic

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention
- Specific treatment (see .? on this label)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- If skin irritation or rash occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
STYRENE MONOMER	100-42-5	42.98832
METHYL METHACRYLATE	80-62-6	4.36755
CARBON BLACK	1333-86-4	0.14

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General Advice	Do not breathe dust/fume/gas/mist/vapors/spray. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.
Ingestion	Do NOT induce vomiting. Consult a physician. Aspiration hazard if swallowed - can enter lungs and cause damage.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects	Burning. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Notes to Physician.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Cool containers / tanks with water spray. Extinguishing media - small fires. Water spray. Carbon dioxide (CO₂). Dry powder. Extinguishing media - large fires. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

May be ignited by heat, sparks or flames. Self-accelerating decomposition may occur if the specific control temperature is not maintained. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

Hazardous Combustion Products	Carbon dioxide (CO ₂). Carbon monoxide.
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Explosion Data

Sensitivity to Mechanical Impact	No known hazard.
Sensitivity to Static Discharge	Avoid static charge.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Evacuate personnel to safe areas. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapors or mists.

All equipment used when handling the product must be grounded.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for Containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Dike to collect large liquid spills.

Methods for cleaning up Use non-sparking tools and equipment.

7. HANDLING AND STORAGE**Precautions for safe handling**

Precautions for safe handling Keep container closed when not in use. Keep away from heat, sparks and flame. Ground/bond container and equipment. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Use only in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions Technical Measures/Storage Conditions. Store contents under 100 F. Store drums with bung in the upright position.

Incompatible Products Strong oxidizing and reducing agents. Strong acids. Bases. Free radical initiators. Strong oxidizing agents, strong acids, and strong bases. Copper. Incompatible Products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLVs	OSHA PELs	NIOSH RELs
STYRENE MONOMER 100-42-5	TWA: 20 ppm STEL: 40 ppm	TWA: 100 ppm Ceiling: 200 ppm	TWA: 50 ppm TWA: 215 mg/m ³ STEL: 100 ppm STEL: 425 mg/m ³ IDLH: 700 ppm
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm SEN	TWA: 100 ppm TWA: 410 mg/m ³	TWA: 100 ppm TWA: 410 mg/m ³ IDLH: 1000 ppm
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons IDLH: 1750 mg/m ³

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Check the air in the buildings to ensure that it is not explosive. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapors.

Skin and Body Protection Wear suitable protective clothing. When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.

Respiratory Protection Use only with adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid
Appearance	Black
Odor	Moderate aromatic
Odor Threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling Point	No information available
Flash Point	28 °C / 82 °F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Specific Gravity	1.084
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient:	No information available
Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing Properties	No information available
VOC Content	48.27
Density VALUE	9.02068
Bulk Density VALUE	No information available
HAPS data	No information available
Monomer	47.3559

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions No data available

Chemical stability

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution.

Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization may occur.

Conditions to Avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Avoid improper addition of promotor and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If adding accelerator like cobalt drier, mix accelerator with base material before adding catalyst.

Incompatible Materials

Strong oxidizing and reducing agents. Strong acids. Bases. Free radical initiators. Strong oxidizing agents, strong acids, and strong bases. Copper. Incompatible Products.

Hazardous Decomposition Products

None under normal use. May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	The product itself has not been tested.
Inhalation	May cause irritation of respiratory tract. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.
Eye Contact	May cause redness, itching, and pain.
Skin Contact	Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
STYRENE MONOMER 100-42-5	= 1000 mg/kg (Rat)	-	= 11.8 mg/L (Rat) 4 h
METHYL METHACRYLATE 80-62-6	-	-	= 4632 ppm (Rat) 4 h

Information on toxicological effects

Symptoms Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Irritating to skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye Irritation Irritating to eyes.
Sensitization May cause sensitization by inhalation and skin contact.
Mutagenic Effects None known.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
STYRENE MONOMER 100-42-5		Group 2B	Reasonably Anticipated	X
METHYL METHACRYLATE 80-62-6		Group 3		
CARBON BLACK 1333-86-4	A3	Group 2B		X

ACGIH

A3 - Animal Carcinogen

IARC

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

NTP:

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA

X - Present

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Developmental Toxicity

None known.

Teratogenicity

None known.

Specific target organ systemic toxicity (single exposure) No known effects under normal use conditions.

Specific target organ systemic toxicity (repeated exposure) May cause disorder and damage to the. Skin. Eyes. Respiratory system. Central nervous system (CNS). Liver. Lungs. Ears.

Chronic Toxicity

Possible cancer hazard. May cause cancer based on animal data.

Target Organ Effects

Central nervous system (CNS), Reproductive system, Respiratory system, Eyes, Liver, Skin.

Aspiration hazard Aspiration hazard.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1154 mg/kg

ATEmix (inhalation-gas) 5193 mg/L

ATEmix (inhalation-dust/mist) 1.7 mg/L

ATEmix (inhalation-vapor) 13.6 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

51.74688% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
STYRENE MONOMER 100-42-5	0.15 - 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.72: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.4: 72 h Pseudokirchneriella subcapitata mg/L EC50	58.75 - 95.32: 96 h Poecilia reticulata mg/L LC50 static 6.75 - 14.5: 96 h Pimephales promelas mg/L LC50 static 19.03 - 33.53: 96 h Lepomis macrochirus mg/L LC50 static 3.24 - 4.99: 96 h Pimephales promelas mg/L LC50 flow-through		3.3 - 7.4: 48 h Daphnia magna mg/L EC50

METHYL METHACRYLATE 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through	69: 48 h Daphnia magna mg/L EC50
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Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Log Pow
STYRENE MONOMER 100-42-5	2.95
METHYL METHACRYLATE 80-62-6	0.7

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Methods	It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
Contaminated Packaging	Do not re-use empty containers.
US EPA Waste Number	D001

Chemical Name	California Hazardous Waste Status
STYRENE MONOMER 100-42-5	Toxic Ignitable
METHYL METHACRYLATE 80-62-6	Toxic Ignitable

14. TRANSPORT INFORMATION**DOT**

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing group	III
Special Provisions	B1, B52, IB3, T2, TP1
Description	UN1866, Resin solution, 3, III
ERG Number	127

TDG

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing Group	III
Description	UN1866, Resin solution, 3, III

MEX

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Special Provisions	223
Packing Group	III
Description	UN1866, Resin solution, 3, III

ICAO

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing group	III
Special Provisions	A3
Description	UN1866, Resin solution, 3, III

ICAO/IATA

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing group	III
Special Provisions	A3
Description	UN1866, Resin solution, 3, III

IMDG/IMO

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing Group	III
EmS No.	F-E, S-E
Special Provisions	223, 955
Description	UN1866, Resin solution, 3, III, (28°C c.c.)

RID

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing Group	III
Classification Code	F1
Description	UN1866, Resin solution, 3, III

ADR/RID

UN-No	UN1866
Proper shipping name	Resin solution
Hazard Class	3
Packing group	III
Classification Code	F1
Tunnel restriction code	(D/E)

Special Provisions 640E
Description UN1866, Resin solution, 3, III
ADR/RID-Labels 3

ADN

Proper shipping name Resin solution
Hazard Class 3
Packing Group III
Classification Code F1
Special Provisions 640E
Description UN1866, Resin solution, 3, III
Hazard Labels 3
Limited Quantity 5 L
ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA All components are listed or exempted
DSL/NDSL Not Determined
EINECS/ELINCS Not Determined
ENCS Not Determined
IECSC Not Determined
KECL Not Determined
PICCS Not Determined
AICS Not Determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
STYRENE MONOMER - 100-42-5	100-42-5	42.9828	0.1
METHYL METHACRYLATE - 80-62-6	80-62-6	4.36755	1.0

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
STYRENE MONOMER 100-42-5	1000 lb			X
METHYL METHACRYLATE 80-62-6	1000 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
STYRENE MONOMER 100-42-5	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
METHYL METHACRYLATE 80-62-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
CARBON BLACK - 1333-86-4	Carcinogen
METHYL ALCOHOL - 67-56-1	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
STYRENE MONOMER 100-42-5	Present (carcinogen)	Present	Environmental hazard
METHYL METHACRYLATE 80-62-6	Present	Present	Environmental hazard
CARBON BLACK 1333-86-4	Present (carcinogen)	Present	Present

U.S. EPA Label information**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid
D2A Very toxic materials

**16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard 2	Flammability 3	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2*	Flammability 3	Physical Hazard 2	Personal Protection X
Revision Date	16-Jun-2015			
Revision Note	No information available			

DISCLAIMER AND LIMITATION OF LIABILITY

LIMITED WARRANTY. Seller warrants that: (i) Buyer shall obtain good title to the product sold hereunder, (ii) at shipment such product shall conform to the Seller's published specifications for the product and for a period of 30 days thereafter, and (iii) the sale or use of such product will not infringe the claims of any U.S. patent covering the product itself, but Seller does not warrant against infringement which might arise by the use of said product in any combination with other products or arising in the operation of any process. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO THE SELLER. ANY ADDITIONAL REPRESENTATIONS OR SUGGESTIONS REGARDING THE PRODUCT OR ITS POSSIBLE USES ARE BASED UPON THE SELLER'S GOOD FAITH OPINION AND BELIEF, BUT ARE NOT TO BE CONSTRUED AS AFFIRMATIONS OF FACT, PROMISES OR DESCRIPTIONS, AND SHALL IN NO WAY BE DEEMED PART OF THE SALE OF THE PRODUCTS. ADDITIONAL RIGHTS OR OBLIGATIONS YOU MAY HAVE AS A PURCHASER OF THIS PRODUCT ARE SET FORTH IN THE LIMITED WARRANTY AND LIMITATION OF LIABILITY, which are included in the packing list for this product.

End of Safety Data Sheet

LABEL DATA NOT PUBLISHED

CA PROP 65 LABEL STATEMENT	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
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