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Version 1.0

1. IDENTIFICATION

Product Identifier

Product Name CARBrid

Other Means of Identification

Product Code 285600

Recommended use of the Chemical and Restrictions on Use

Recommended Use Carbon build-up remover. For industrial use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Yellow

Physical State Liquid

Odor Aromatic

Classification

Acute Toxicity – Oral	Category 5
Acute Toxicity – Dermal	Category 5
Skin Corrosion/Irritation	Category 2
Serious Eye Irritation/Damage	Category 2 Sub-category A
Reproductive Toxicity	Category 1 Sub-category B
Specific Target Organ Toxicity – Single Exposure	Category 3
Specific Target Organ Toxicity – Repeated Exposure	Category 2
Aspiration Toxicity	Category 1
Aquatic Toxicity – Acute	Category 3

Signal Word

Danger

Hazard Statements

May be harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
May damage fertility or the unborn child.
May cause respiratory irritation, drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.

Precautionary Statements – Response

IF exposed or concerned: Get medical advice/attention.
 IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.
 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
 SPECIFIC TREATMENT: Remove from exposure and treat symptoms.

Precautionary Statements - Storage

Store locked up.
 Store in a well-ventilated place.
 Keep container tightly closed.

Precautionary Statements - Disposal

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

Other Hazards

None known.

Unknown Acute Toxicity

None known.

Hazards Not Otherwise Classified (HNOC)

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	15-40
N-Methyl-2-Pyrrolidone	872-50-4	15-40
Benzyl Alcohol	100-51-6	10-30
Benzene, 1-Chloro-4 (Trifluoromethyl)	98-56-6	10-30
Isopropanol	67-63-0	3-7
1-Methoxy-2-Propanol	107-98-2	1-5
Monoethanolamine	141-43-5	1-5
Propylene Glycol Phenol Ether	770-35-4	1-5
Tall Oil Fatty Acid	8002-26-4	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	If exposed or concerned: Get medical advice/attention.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if necessary.
Ingestion	Rinse mouth. Drink plenty of water. Call a physician or poison control center immediately. Never give anything to an unconscious person.

Most Important Symptoms and Effects

Symptoms	Aspiration hazard. Potential health effects – target organs, central nervous system, kidneys and liver. Vapors may cause headache, fatigue, dizziness and nausea.
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Indication of any Immediate Medical Attention and Special Treatment Needed

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

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO₂). Dry chemical. Foam.

Unsuitable Extinguishing Media

Straight streams of water.

Specific Hazards Arising from the Chemical

Vapors are heavier than air. Vapors may travel across the ground and reach ignition sources causing a flashback fire danger.

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	Use personal protection recommended in Section 8.
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Environmental Precautions	Avoid release to the environment.
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Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up	Collect in a clean, dry waste container for disposal. Dispose of in accordance with federal, state and local regulations. Absorb or cover with earth, sand or other non-combustible material and transfer to containers for later disposal.
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7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.
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Conditions for Safe Storage, including any Incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from freezing.
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Incompatible Materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	-	TWA: 400 mg/m3	-
N-Methyl-2-Pyrrolidone 872-50-4	-	TWA: 10.0000ppm	-
Isopropanol 67-63-0	TWA: 200ppm STEL: 400ppm	TWA: 400ppm 980 mg/m3	-
1-Methoxy-2-Propanol 107-98-2	TWA: 50ppm STEL: 100ppm	-	-
Monoethanolamine 141-43-5	TWA: 3ppm STEL: 6ppm	TWA: 6 mg/m3, 3 ppm	-
Tall Oil Fatty Acid 8002-26-4	TWA: 5 mg/m3 (Respirable) STEL: 10mg/3 (Respirable)	TWA: 5mg/m3 (Respirable)	-

Appropriate Engineering Controls

Engineering Controls Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear safety glasses or goggles when using this product.

Skin and Body Protection Wear chemical resistant gloves when using this product.

Respiratory Protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Aromatic
Appearance	Clear	Odor Threshold	Not determined
Color	Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable	
Melting Point/Freezing Point	< 0 °C / <32 °F	
Boiling Point/Boiling Range	Not established	
Flash Point	Not determined	CC (closed cup)
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	0.99	
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep from freezing. Keep out of reach of children. Excess heat, open flames, and sparks.

Incompatible Materials

Strong oxidizers, strong acids, strong reducing agents.

Hazardous Decomposition Products

When exposed to fire, produces oxides of carbon, smoke, fumes, oxides of nitrogen, chlorine gases, and fluorine gases.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4688 mg/m3 4h vapor (Rat)
N-Methyl-2-Pyrrolidone 872-50-4	= 3914 mg/kg (Rat)	= 8000 mg/kg (Rabbit)	> 5100 ppm 4h (Rat)
Benzyl Alcohol 100-51-6	= 1620 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	> 5000 mg/m3 4h (Rat)
Benzene, 1-Chloro-4 (Trifluoromethyl) 98-56-6	> 6800 mg/kg (Rat)	> 2700 mg/kg (Rabbit)	> 4479 ppm (Rat)
Isopropanol 67-63-0	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
1-Methoxy-2-Propanol 107-98-2	= 6040 mg/kg (Rat)	= 12900 mg/kg (Rat)	= 7000 ppm 7h (Rat)
Monoethanolamine 141-43-5	= 1089 mg/kg (Rat)	= 2504 mg/kg (Rat)	> 1.48 mg/L 4h vapor (Rat)
Propylene Glycol Phenol Ether 770-35-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.4 mg/L 4h dust/mist (Rat)
Tall Oil Fatty Acid 8002-26-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity Not classifiable as a human carcinogen.

Aspiration Hazard

May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity

Not determined

Unknown Acute Toxicity

None known.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	-	<5 mg/L 96h Oncorhynchus mykiss	-	3-10 mg/L 48h Daphnia magna
N-Methyl-2-Pyrrolidone 872-50-4	-	> 500 mg/L Leuciscus idus 96h	> 9000 mg/L Bacteria	> 1000 mg/L 24h Daphnia magna
Benzyl Alcohol 100-51-6	-	460-770 mg/L 96h Fathead minnow	= 71.4 mg/L Phytobacterium phosphoreum	400 mg/L 48h Daphnia magna
Benzene, 1-Chloro-4 (Trifluoromethyl) 98-56-6	500 mg/L 72h Green & Blue-Green Algae	= 12 mg/L 96h Bluegill minnow	-	12.4 mg/L 48h Daphnia magna
Isopropanol 67-63-0	> 100mg/L Algae	> 100 mg/L	-	> 100 mg/L
1-Methoxy-2-Propanol 107-98-2	-	> 1000 mg/L 96h Salmon	-	-
Monoethanolamine 141-43-5	2.5 mg/L Pseudokirchneriella subcapitata	= 349 mg/L 96h Cyprinus carpio	> 1000 mg/L activated sludge	65 mg/L 48h Daphnia magna
Propylene Glycol Phenol Ether 770-35-4	> 100 mg/L 72h Desmodesmus subspicatus	280 mg/L 96h Pimephales promelas	-	370 mg/L 48h Daphnia magna
Tall Oil Fatty Acid 8002-26-4	> 2000 mg/L 72h Desmodesmus subspicatus	> 100 mg/L 96h	-	5000 mg/L 48h Daphnia magna

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Other Adverse Effects

Not determined.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION**Note****DOT**

Not regulated.

IATA Not regulated

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Canada – Domestic Substances List (DSL) All ingredients are listed or exempt.
 TSCA (Toxic Substances Control Act) All ingredients are listed or exempt.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
 Chronic Health Hazard Yes

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
N-Methyl-2-Pyrrolidone	872-50-4	15-40	1.0

US State Regulations

U.S. State Right to Know Regulations

Chemical Name	State List
N-Methyl-2-Pyrrolidone 872-50-4	MA, NJ, PA, CAP65
Isopropanol 67-63-0	NJ, PA
1-Methoxy-2-Propanol 107-98-2	PA
Monoethanolamine 141-43-5	PA

AZ – Arizona Ambient Air Quality Guidelines
 CT – Connecticut Hazardous Air Pollutants
 CA – California Director’s List of Hazardous Substances
 CAP65 – California Prop 65
 FL – Florida Substances List
 ID – Idaho Non-Carcinogen Toxic Air Pollutants

IL – Illinois Toxic Air Contaminate- Carcinogenic
 MA – Massachusetts Right to Know List
 MN – Minnesota Hazardous Substances List
 NJ – New Jersey Right to Know List
 PA – Pennsylvania Right to Know List
 RI – Rhode Island Hazardous Substances List

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet