

MATERIAL SAFETY DATA SHEET



CARBIDE POWERGRIND

SECTION 1 Product and Company Information

Product identifier	Rustlick Carbide PowerGrind
Product use	Metalworking fluid for carbide grinding
Manufacturer	ITW ROCOL North America 3624 West Lake Avenue Glenview, Illinois 60026 1-800-452-5823
Emergency info	CHEMTREC, 1-800-424-9300

SECTION 2 Hazards Identification

Emergency overview No hazards resulting from the material supplied.

HMIS rating

Health	1
Flammability	1
Reactivity	0
Personal protection	B

Routes of entry Skin, eyes, respiratory tract, digestive system.

Potential short-term health effects

Skin	May cause mild irritation.
Eyes	May cause mild irritation.
Inhalation	May cause irritation to nose and throat. Inhalation of vapors or mist may cause headache, dizziness, and drowsiness.
Ingestion	Harmful if swallowed. Ingesting large quantities may cause injury or death.

Potential long-term health effects Not known

SECTION 3 Chemical Composition/Hazardous Ingredients

Ingredients	CAS #	OSHA/PEL (TWA)	ACGIH/TLV (TWA)
2-amino-2-methyl-1 propanol	124-68-5		

* Exact chemical identities and percentages are withheld as trade secrets provided under 29CFR.1910.1200.

SECTION 4**First Aid Measures**

Skin contact	Immediately wash the exposed area thoroughly with soap and water. Remove contaminated clothing. Wash before reuse. If irritation persists, consult physician.
Eye contact	In case of contact, immediately flush with water for at least 15 minutes. If irritation persists, consult physician.
Inhalation	If inhaled, move to fresh air. If irritation persists, consult physician.
Ingestion	If swallowed, DO NOT induce vomiting. Contact a physician immediately. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5**Fire Fighting Measures**

Flammable limits	Not available
Products of combustion	Oxides of carbon (CO, CO ₂).
Flash point (method)	> 200°F (93°C) (PMCC)
Auto-ignition temperature	Not available
Explosion data	
Sensitivity to mechanical impact	None known
Sensitivity to static discharge	None known
Fire-fighting media and instructions	In case of fire use carbon dioxide, dry chemicals, or foam.
Special fire-fighting procedures/equipment	Self contained breathing apparatus and protective clothing is recommended to protect fire fighters from any hazardous combustion or decomposition products. Pressure build-up in the closed container may occur due to heat exposure.

SECTION 6**Accidental Release Measures**

Personal precautions	Use appropriate safety equipment. Avoid inhaling vapors or mist. Avoid contact with eyes, skin and clothing.
Environmental precautions	Do not allow spilled product to enter drains, sewers, or waterways.
Cleanup	Ventilate area. Eliminate all sources of heat and flame. Stop leak if safe to do so. Contain spill. Use absorbent material, such as vermiculite or sand. Place in suitable container for later disposal.
Prohibited materials	None

SECTION 7**Handling and Storage**

Handling	Use appropriate safety equipment. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep away from extreme heat. Keep container closed when not in use.
Storage	Store away from extreme heat, flame, or ignition sources. Pressure build up may occur due to heat exposure or temperature change. Release pressure by slowly opening container.

SECTION 8**Exposure Controls and Personal Protection****Hygiene measures**

Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke while handling this product.

Control measures

General ventilation should be sufficient. Providing approved respirators for emergencies, or when mist/vapor concentrations are unknown may be warranted. Availability of eye wash station, washing facilities and safety shower is recommended.

Personal protection**Skin**

Wear suitable glove. Chemical resistant gloves, such as polyvinyl chloride-coated, are recommended. Wear protective clothing suitable to prevent contact. Remove contaminated clothing and launder before wearing.

Eyes

Safety glasses are recommended.

Respiratory

Dust from grinding carbide can cause throat, skin, and eye irritation, as well as respiratory disease. Always use a high efficiency respirator when grinding carbide (wet or dry) or when in a room where carbide grinding is performed.



SECTION 9**Physical and Chemical Properties****Physical state**

Liquid

Color

Green

Odor

Mild

pH (at 10%)

10.2

Boiling point

212°F (100°C)

Melting/freezing point

Not available

Vapor pressure

Not available

Solubility in water

Soluble

Specific gravity

1.04

Vapor density

> 1

Evaporation rate

< 1

Volatile organic compounds

Nil

SECTION 10**Reactivity and Stability****Stability and reactivity**

Stable. Hazardous polymerization will not occur.

Conditions to avoid

Do not mix with products containing nitrites, under certain conditions amines may react with nitrites to form potentially carcinogenic nitrosamines.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition or burning will produce carbon monoxide and carbon dioxide (CO, CO₂).

SECTION 11		Toxicological Information	
LD50		Not determined for the product.	
LC50		Not determined for the product.	
Carcinogenic		None of the ingredients in this product are listed by IARC, ACGIH, NTP or OSHA as carcinogenic.	
Teratogenicity		No data	
Mutagenicity		No data	
Medical conditions aggravated by exposure		Skin disorders and respiratory disorders.	
SECTION 12		Ecological Information	
Environmental toxicity		None reported	
Aquatic toxicity		No data	
SECTION 13		Disposal Considerations	
Handling for disposal		Absorb on suitable material and follow procedures listed below.	
Methods of disposal		Dispose of in a manner that is recommended by local, state, provincial and federal laws and regulations.	
SECTION 14		Transportation Information	
Not classified as hazardous for transport according to IATA, 49CFR, and IMDG regulations.			
SECTION 15		Regulatory Information	
WHMIS information		No data	
CEPA information		No data	
TSCA information		All ingredients are included in the TSCA inventory.	
SARA Title III		Contains no ingredients which exceed De Minimus reporting requirements.	
California Prop 65		The product contains no chemicals known to the state of California to cause cancer or reproductive toxicity.	
SECTION 16		Other Information	
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References			
1. ACGIH, <u>Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices, 2004.</u>			
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2004.			
3. US EPA Title III Lists of Lists - October 2001 version.			
4. Material Safety Data Sheets from manufacturer.			