

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/30/2015

Reviewed on 09/30/2015

**1 Identification**

- **Product Identifier** #046 FERROUS METALS.
- **Trade name: Metal Magic 32**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** Cleaning product
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Park City Co, LLC.  
2405 Riverside Drive  
Chattanooga, TN 37406  
Phone 423-698-0261  
Fax 423-698-1765  
www.parkcitychemical.com
- **Emergency telephone number:**  
Chemtrec at 1-800-424-9300 24 Hours  
Outside the U.S., call Chemtrec collect at 703-527-3887

**2 Hazard(s) Identification**

- **Classification of the substance or mixture:**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Flam. Liq. 4 H227 Combustible liquid.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Warning
- **Hazard-determining components of labeling:**  
Coconut diethanolamide - anionic surfactant  
Diethanolamine
- **Hazard statements:**  
Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.

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Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

Keep away from flames and hot surfaces. – No smoking.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Unknown acute toxicity:**

0 % of the mixture consists of component(s) of unknown toxicity.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	1
REACTIVITY	0

Health = \*1

Fire = 1

Reactivity = 0

**Hazard(s) not otherwise classified (HNOC):** None known**3 Composition/Information on Ingredients****Chemical characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous Components:**

CAS: 68603-42-9	Coconut diethanolamide - anionic surfactant ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	25-50%
CAS: 67-63-0 RTECS: NT 8050000	Isopropyl alcohol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	15-35%

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CAS: 111-42-2 RTECS: KL 2975000	Diethanolamine ⚠ Carc. 2, H351; STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	5-10%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	≤ 2.5%

**4 First-Aid Measures**

- **Description of first aid measures:**
- **After inhalation:**  
Consult a doctor for complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

**5 Fire-Fighting Measures**

- **Extinguishing media:**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Protect from heat.

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Trade name: **Metal Magic 32**

- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
No further relevant information available.  
Protect from heat and direct sunlight.
- **Specific end use(s):** No further relevant information available.

**8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

• <b>Components with occupational exposure limits:</b>	
<b>67-63-0 Isopropyl alcohol</b>	
PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
<b>111-42-2 Diethanolamine</b>	
REL	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV	Long-term value: 1* mg/m <sup>3</sup> , 0.2* ppm Skin; *inhalable fraction and vapor
<b>56-81-5 Glycerol</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
• <b>Ingredients with biological limit values:</b>	
<b>67-63-0 Isopropyl alcohol</b>	
BEI	40 mg/L urine end of shift at end of workweek Acetone (background, nonspecific)

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing and wash before reuse.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.

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**Trade name: Metal Magic 32****• Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

**• Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**• Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

**• Eye protection:**

Tightly sealed goggles

**9 Physical and Chemical Properties****• Information on basic physical and chemical properties****• General Information****• Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Light orange color
<b>Odor:</b>	Slight
<b>Odor threshold:</b>	Not determined.

**• pH-value @ 20 °C (68 °F):** 8

**• Change in condition**

<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	< 102 °C (< 216 °F)

**• Flash point:** > 93 °C (> 199 °F)

**• Flammability (solid, gaseous):** Not applicable.

**• Ignition temperature:** 0 °C (32 °F)

**• Decomposition temperature:** Not determined.

**• Auto igniting:** Product is not self-igniting.

**• Danger of explosion:** Not determined.

**• Explosion limits:**

<b>Lower:</b>	0.0 Vol %
<b>Upper:</b>	12.0 Vol %

**• Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)

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**Trade name: Metal Magic 32**

- **Density @ 20 °C (68 °F):** 0.98 g/cm<sup>3</sup> (8.178 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
  - Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 21.3 %
  - VOC content:** 20.0 %
  - 196.0 g/l / 1.64 lb/gl
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:**
  - Strong acids, strong bases
  - Strong oxidizing agents.
- **Hazardous decomposition products:** Oxides of carbon (COx)

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

• **LD/LC50 values that are relevant for classification:**

68603-42-9 Coconut diethanolamide - anionic surfactant		
Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	12200 mg/kg (rabbit)
67-63-0 Isopropyl alcohol		
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
	LC50/96 hours	9640 mg/l (Pimephales)
111-42-2 Diethanolamine		
Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	12200 mg/kg (rabbit)
56-81-5 Glycerol		
Oral	LD50	12600 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)

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**Trade name: Metal Magic 32**

Inhalative LC50/96 hours &gt;50.000 mg/l (Trout)

**Primary irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**Carcinogenic categories:****IARC (International Agency for Research on Cancer):**

- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to its carcinogenicity to humans
- Group 4 - Probably not carcinogenic to humans

68603-42-9 Coconut diethanolamide - anionic surfactant

2B

67-63-0 Isopropyl alcohol

3

111-42-2 Diethanolamine

2B

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information****Toxicity:****Aquatic toxicity:**

67-63-0 Isopropyl alcohol

EC50 6851 mg/l (Green algae)

5102 mg/l (Water flea)

- **Persistence and degradability:** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential:** No further relevant information available.

- **Mobility in soil:** No further relevant information available.

- **Additional ecological information:**

**General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects:** No further relevant information available.

**13 Disposal Considerations****Waste treatment methods:****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

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**Trade name: Metal Magic 32**

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport Information**

- **UN-Number:** Non-Regulated Material
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:** Non-Regulated Material
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**
- **Section 355 (extremely hazardous substances):**  
None of the ingredients are listed.
- **Section 313 (Specific toxic chemical listings):**  
67-63-0 Isopropyl alcohol  
111-42-2 Diethanolamine
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.
- **California Proposition 65:**
- **Chemicals known to cause cancer:**  
68603-42-9 Coconut diethanolamide - anionic surfactant  
111-42-2 Diethanolamine
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients are listed.
- **Carcinogenic categories:**
- **EPA (Environmental Protection Agency):**  
None of the ingredients are listed.

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**Trade name: Metal Magic 32****• TLV (Threshold Limit Value established by ACGIH):**

67-63-0 Isopropyl alcohol

A4

111-42-2 Diethanolamine

A3

**• NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**• GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**• Hazard pictograms:**

GHS07 GHS08

**• Signal word: Warning****• Hazard-determining components of labeling:**Coconut diethanolamide - anionic surfactant  
Diethanolamine**• Hazard statements:**Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.**• Precautionary statements:**Keep away from flames and hot surfaces. – No smoking.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves / eye protection / face protection.  
Wear protective gloves.  
Wear eye protection / face protection.  
Wash thoroughly after handling.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.**• National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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Trade name: **Metal Magic 32**

State Right to Know:		
CAS: 7732-18-5	Water, distilled water, deionized water	25-50%
CAS: 68603-42-9	Coconut diethanolamide - anionic surfactant ◆ Carc. 2, H351; ◆ Acute Tox. 4, H302; Skin Irrit. 2, H315	25-50%
CAS: 67-63-0 RTECS: NT 8050000	Isopropyl alcohol ◆ Flam. Liq. 2, H225; ◆ Eye Irrit. 2, H319; STOT SE 3, H336	15-35%
CAS: 111-42-2 RTECS: KL 2975000	Diethanolamine ◆ Carc. 2, H351; STOT RE 2, H373; ◆ Eye Dam. 1, H318; ◆ Acute Tox. 4, H302; Skin Irrit. 2, H315	5-10%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	≤ 2.5%
56-81-5	Glycerol	1.319%

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision: 09/30/2015 / -

**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Flam. Liq. 4: Flammable liquids, Hazard Category 4  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

\* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

## Navigation

- Abrasive
- Burnishing/Coloring
- Descaling
- Cleaning
- Precautions
- Need to Know
- Packaging
- All Products

### Guidelines

- Use Directions Chart
- Processing Suggestions

## Service Philosophy

### Park City Chemical offers Specialized and Personalized services

All of the company's principles and practically all of the field sales force are genuine specialists. They helped to pioneer and systematize precision barrel finishing, changing tumbling from loosely held individual concepts to a precise science. They developed modern equipment, techniques, and supplies. They formulated processing compounds which still enjoy a reputation as "classics" because of outstanding performance coupled with economy.

## Burnishing Compounds

### Metal Magic 32 pH 8.0

A less concentrated liquid burnishing and cleaning compound with slightly alkaline pH. Like Metal Magic 30, this compound has a wide range of applications and is suitable for use on all metals and alloys for burnishing, deburring and cleaning, but it cannot produce the exceptionally high color and luster of Metal Magic 30. Metal Magic 32 is ideal for use in flow-through systems. It is applicable for both vibratory and barrel finishing.

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