

Date of issue: 28th May 2015

Revision date: 28th May 2015 Replaces version dated: 14th Aug 2014

Version:2.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Product form : Mixture  
 Product name : Honing Compound Bar  
 Product code : U\*DWS/HP/US, 12680 Micro Fine Honing Compound

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

Industrial/Professional use spec : Abrasive/buffing compound

**1.2.2. Uses advised against**

No additional information available.

**1.3. Details of the supplier of the safety data sheet**

Trend Routing Technology Inc.  
 7351 West Friendly Avenue, Suite A  
 Greensboro NC 37410  
 USA

T (336)-292-5051  
 F (336)-292-5061  
 lamuragliaj@trend-usa.com

www.trend-usa.com

**1.4. Emergency telephone number**

Emergency number : 1(616)-456-5458 Formax Mfg. Corporation

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (19 CFR 1910.1200)

Full text of H-phrases: see section 16

**2.2. Label elements**

GHS label elements : The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms : Non-regulated material

Signal word : None

Hazard-determining components of labeling : None

Hazard statements : None

Precautionary statements : P201 - Obtain special instructions before use

**Unknown acute toxicity** : 2% of the mixture consists of ingredient(s) of unknown toxicity

**2.3. Other hazards**
**Hazards not otherwise classified (HNOC)** Not applicable

**Other information**

May cause slight eye irritation  
 PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

**SECTION 3: Composition/information on ingredients**
**Chemical characterization**
**3.1. Substances**

Not applicable

**3.2. Mixture**

Chemical Name	CAS No.	Weight %	Trade Secret
Aluminum oxide	1344-28-1	30 - 60	*
Chromium (III) oxide	1308-38-9	15 - 40	*
Stearic acid	57-114-4	5 - 10	*

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

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

First-aid measures after inhalation	: Remove to fresh air. If symptoms persist, call a physician.
First-aid measures after skin contact	: Wash skin with soap and water. In case of skin irritation or allergic reactions see a physician.
First-aid measures after eye contact	: Rinse opened eye for at least 15 minutes under running water. If symptoms persist consult a doctor.
First-aid measures after ingestion	: Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

No additional information available

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

Notes to physician : Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**

Suitable extinguishing agents	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: CAUTION: Use of Water spray when fighting fire may be inefficient.

**5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

**5.3. Advice for firefighters**

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

**Explosion data**

Sensitivity to mechanical impact	: No
Sensitivity to static discharge	: No

**SECTION 6: Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

 6.1.1. For non-emergency personnel  
 Emergency procedures : Avoid contact with eyes.

**6.1.2. For emergency responders**

 Protective equipment : No information available.  
 Emergency procedures : No information available.

**6.2. Environmental precautions**

Refer to protective measures listed in Sections 7 and 8.

**6.3. Methods and material for containment and cleaning up**

 Methods for cleaning up : Prevent further leakage or spillage if safe to do so.  
 Methods for cleaning up : Pick up and transfer to properly labeled containers.

**6.4. Reference to other sections**

No further information available.

**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Keep container tightly closed.

 Incompatible products : Store away from strong acids or oxidizers.  
 Incompatible materials : None known based on information supplied.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**8.2. Exposure Limit Values**
**Exposed guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum oxide 1344-28-1	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction vacated (TWA): 5 mg/m <sup>3</sup> total dust vacated (TWA): 5 mg/m <sup>3</sup> respirable fraction	
Chromium (III) oxide 1308-38-9		TWA: 0.5 mg/m <sup>3</sup> Cr (vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III) TWA: 0.5 mg/m <sup>3</sup> Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Death.

**Other exposure guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F .2d 962 (11th Cit., 1992) See Section 15 for national exposure control parameters.

**8.2. Exposure controls**
**Appropriate engineering controls**

Engineering measures : Showers  
: Eyewash stations  
: Ventilation systems

**Personal protective equipment**

Eye/face protection : For buffing machine wear safety glasses and /or face shield helmets. See OSH 29 CFR 1910.122 (Safety Glasses).

Skin and body protection : Protective work clothing, heavy duty gloves, body apron or belly pads, safety shoes as needed.

Respiratory protection : Respiratory protection (specify type): OSHA 24 CFR/134 NIOSH/MSHA Approved respirators for particulates from buffing debris. If exposure limits are exceeded or irritation is experienced, ventilation and evaporation may be required.

Hearing protection : Avoid prolonged excessive noise levels created by buffing and polishing operations. See: OSHA 26 CFR 1910.215 (Hearing Protection).  
Select glove material based on penetration times, rates of diffusion and degradation.

Hygienic measures : Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state : Solid

Appearance : premolded cake form

Color : Dark green

Odor : Fatty odor

Odor threshold : No information available

Relative evaporation rate : Nil

Melting point : 131°F

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Flammability (solid, gas) : No data available

Upper flammability limit in air : No data available

Lower flammability limit in air : No data available

Vapor pressure : No data available

Vapor density : No data available

Specific gravity : No data available

Water solubility : Negligible

Solubility in other solvents : No data available

Partition coefficient (n-octanol/water) : No data available

Auto ignition temperature : No data available

Decomposition temperature : No data available

Kinematic viscosity : No data available

Dynamic viscosity : No data available

Explosive properties : No data available  
 Oxidizing properties : No data available

**9.2. Other information**

Softening point : No data available  
 VOC content (%) : No data available  
 Particle size : No data available  
 Particle size distribution : No data available

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**10.4. Conditions to avoid**

Using under conditions of insufficient dust collecting systems or ventilation.

**10.5. Incompatible materials**

Strong oxidizers or Reducing agents.

**10.6. Hazardous decomposition products**

Carbon oxides.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Information on likely routes of exposure**

Product information : Product does not present an acute toxicity hazard based on known or supplied information.  
 Inhalation : Specific test data for the substance or mixture is not available.  
 Eye contact : Specific test data for the substance or mixture is not available.  
 Skin contact : Specific test data for the substance or mixture is not available.  
 Ingestion : Specific test data for the substance or mixture is not available.

**Component information**
**Aluminum oxide (1344-28-1)**

LD50 oral rat	> 5000 mg/kg
LD50 dermal	-
LC50 inhalation	-

**Information on toxicological effects**

Symptoms : No information available

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

Sensitization : No information available  
 Mutagenic effects : No information available  
 Carcinogenicity : The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Chromium (III) oxide (1308-38-9)**

ACGIH	
IARC	Group 3
NTP	
OSHA	

**IARC (International Agency for Research on Cancer)**

Group 3 - Not classified as to Carcinogenicity in Humans

Reproductive toxicity : No information available  
 STOT - single exposure : No information available  
 STOT - repeated exposure : No information available  
 Chronic toxicity : No known effect based on information supplied. Carcinogenic potential is unknown.  
 Target organ effects : Eyes. Respiratory system. Skin. Lungs.  
 Aspiration hazard : No information available

**Numerical measures of toxicity - product information**

The following values are calculated based on chapter 3.1 of the GHS document. : Not applicable

**SECTION 12: Ecological information**
**12.1. Toxicity**

The environmental impact of this product has not been fully investigated.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**

Waste disposal recommendations : This material, as supplied, is not hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging : Dispose of contents/container in accordance with local regulations.

**Chromium (III) oxide (1308-38-9)**

RCRA

RCRA - Basis for Listing

RCRA - D Series Wastes D007

RCRA - U Series Wastes

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Chromium (III) oxide (1308-38-9)	Toxic Corrosive Ignitable

**SECTION 14: Transport information**

**DOT** : NOT REGULATED  
 Proper shipping name : **NMFC-48580 Scouring Compound (cake, paste or liquid form N.O.I.)**  
 Hazard class : Not applicable

**TDG** : Not regulated

**MEX** : Not regulated

**ICAO** : Not regulated

**IATA** : Not regulated  
 Proper shipping name : NON REGULATED  
 Hazard class : Not applicable

**IMDG/IMO** : Not regulated  
 Hazard class : Not applicable

**RID** : Not regulated

**ADR** : Not regulated

**ADN** : Not regulated

**SECTION 15 : Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**International inventories**

TSCA : Complies  
 DSL : All components on the DSL or NDSL.  
 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 313**

Section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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 %
Aluminum oxide (1344-28-1)	1344-28-1	30 - 60	1.0
Chromium (III) oxide (1308-38-9)	1308-38-9	15 - 40	0.1

**SARA 311/312 Hazard categories**

Acute health hazard : No  
 Chronic health hazard : No  
 Fire hazard : No  
 Sudden release of pressure hazard : No  
 Reactive hazard : No

**CWA (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
Chromium (III) oxide (1308-38-9)		X		

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**USA State Regulations**
**Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Aluminum oxide (13344-28-1)	X	X	X	X	
Chromium (III) oxide (1308-38-9)	X	X	X	X	X
Supplier Trade Secret			X		

**International Regulations**
**Mexico**

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Aluminum oxide (1344-28-1) (30 - 60)		Mexico: TWA = 10 mg/m3
Chromium (III) oxide (1308-38-9) (15 - 40)		Mexico: TWA = 0.5 mg/m3

*Mexico - Occupational Exposure Limits*

**Canada**

WHMIS Hazard class : Non controlled

**SECTION 16: Other information**

<b>NFPA</b>	<b>Health hazards 1</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health hazards 1</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Physical and chemical hazards - X</b>

User notes	: Sections revised 1 to 16 Revision due to material specification change
Data sources	: Suppliers own data sheet (Formax MFG. Corporation), issued 02/02/2015, revision date 01 Jan 2014, revision date 25 Sept 2014 revision 1.
Other information	: Not applicable
Trend SDS reference	: LEAF/HS/U*DWSHP

## Full text:

ADR	Accord européen sur le transport des marchandises dangereuses par Route (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
IARC	International Agency for Research on Cancer
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service (division of the American Chemical Society)
NFPA	National Fire Protection Association (USA)
HMIS	Hazardous Materials Identification System (USA)
STOT	Specific Target Organ Toxicity
NTP	National toxicology Program
OSHA	Occupational Safety and Health Administration
GHS	Global Harmonised Standard
RCRA	Resource Conservation and Recovery Act
TDG	Transport of Dangerous Goods
ICAO	International Civilian Aviation Organization
IMO	International Maritime Organization
RID	Reglement concernant le transport International ferroviare des marchandises Dangereuses par chemin de fer (European Agreement Concerning the International Carriage of Dangerous Goods by Rail)
TSCA	United States Toxic Substances Control Act Section 8 (b) Inventory
DSL	Canadian Domestic Substances List
NDSL	Canadian Non-Domestic Substances List
SARA	Superfund Amendments and Reauthorization Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CWA	Clean Water Act
TLV	Threshold Limit Value
TWA	Time Weighted Average
PEL	Permissible Exposure Limits
NIOSH	National Institute of Occupational Safety and Health
IDLH	Immediately Dangerous to Life or Death

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*