

PRODUCT NAME: ABRO Rubbing Compound
PRODUCT NUMBER/SIZE: RC-947 / 32 oz.

Rev Date: 08/05/2015

SECTION 1
Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.
ADDRESS: 3580 Blackthorn Court
South Bend, IN 46628
USA
PRODUCT DESCRIPTION: Paste Compound
COMPANY PHONE: 574-232-8289
EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300
International +1-703-527-3887

SECTION 2
Hazards Identification

Classification:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

FLAMMABLE LIQUIDS – Category 4

SKIN SENSITIZATION – Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 2

Label Pictogram(s):



Signal Word: **WARNING**

Hazard Phrases: Combustible liquid. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases: Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces. - No smoking. Do not breathe vapor. Contaminated work clothing must not be allowed out of the workplace.

Response: Get medical attention if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Storage / Disposal: Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other: Keep out of reach of children.

SECTION 3 Composition/Information on Ingredients

Substance/mixture: Mixture

Ingredient name	%	CAS number
Tripoli	10-30	1317-95-9
Distillates (petroleum), hydrotreated light	10-30	64742-47-8
Proprietary ingredient 2	1-5	-
Proprietary ingredient 3	0.1-1	-
Ammonia	0.1-1	1336-21-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 First Aid Measures

EYE CONTACT: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention following exposure or if feeling unwell.

SKIN CONTACT: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INGESTION: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Skin contact

Adverse symptoms may include the following:

irritation

redness

Ingestion

No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

SECTION 5
Fire Fighting Measures

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific Hazards Arising from the Chemical: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Explosion Data

None

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

metal oxide/oxides

Special protective actions for fire-fighters: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7 Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and

food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Controls/Personal Protection

Control parameters Occupational exposure limits

Ingredient name	Exposure limits
Tripropyl	OSHA PEL 1989 (United States, 3/1989). TWA: 0.1 mg/m ³ , (as quartz) 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2015). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust
Distillates (petroleum), hydrotreated light	OSHA PEL (United States). TWA: 213 ppm TWA: 1200 mg/m ³ ACGIH TLV (United States, 3/2015). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Proprietary ingredient 3	AIHA WEEL (United States, 10/2011). TWA: 30 ppm 8 hours.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9 Physical and Chemical Properties

Appearance

Physical state	Paste
Color	Red
Odor	Slight Solvent
Odor threshold	NA
pH	8.68 [Conc. (%w/w): 100%]
Melting point	NA
Boiling point	NA
Flash point	Closed cup: >75.556°C (>168°F)
Evaporation rate	NA
Flammability (solid, gas)	NA
Lower and upper explosive (flammable) limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	NA
Solubility	NA
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	RC-947 Abro Heavy Duty Rubbing Compound 32oz
Volatility	NA

SECTION 10 Stability and Reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

The product is stable.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials and alkalis.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11
Toxicological Information**

Information on toxicological effects

Acute toxicity

Product/ingredient	Result	Species	Dose	Exposure
Proprietary ingredient 2	LD50 Oral	Rat	5170 mg/kg	-
Proprietary ingredient 3	LD50 Oral	Rat	5300 mg/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-

Irritation/Corrosion

Product/ingredient	Result	Species	Score	Exposure	Observation
Proprietary 2	Skin – Severe irritant	Mouse	-	-	-
	Skin – Mild irritant	Rabbit	-	-	-
Proprietary 3	Skin- Moderate irritant	Rabbit	-	24 hours 500 mg	-
Ammonia	Eyes-Severe irritant	Rabbit	-	250 µg	-
	Eyes-Severe irritant	Rabbit	-	0.5 Minutes 1 mg	-

Sensitization

There is no data available.

Carcinogenicity Classification

Product/ingredient	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Tripoli	-	-	-	A2	-	+
Distillates (petroleum), hydrotreated light	-	-	-	A3	-	-
Stearic acid	-	-	-	A4	-	-

Specific target organ toxicity (single exposure)

Name	Category	Route of Exposure	Target Organs
Ammonia	Category 3	Not Applicable	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of Exposure	Target Organs
Tripoli	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATIN HAZARD – Category 1

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Skin contact Adverse symptoms may include the following:

irritation

redness

Ingestion No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	155242.3 mg/kg

SECTION 12 Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light	Acute LC50 2200 µg/L Fresh water	Fish - Lepomis macrochirus	4 days 96 hours
Proprietary ingredient 2	Acute LC50 6.3 mg/L Fresh water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Proprietary ingredient 3	Acute EC50 28.2 mg/L Fresh water Acute EC50 20.2 mg/L Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas – Juvenile (Fledgling, Hatchling, Weanling)	96 hours 96 hours
Ammonia	Acute IC50 13.798 mg/L Fresh water Acute EC50 0.66 mg/L Acute LC50 8.2 mg/L	Algae - Pseudokirchneriella subcapitata Daphnia Fish	96 hours 48 hours 96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Proprietary ingredient 3	4.57	-	high

Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Other adverse effects : No known significant effects or critical hazards.

SECTION 13 Disposal Considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed

for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

U.S. DOT UN/ID Number: Not Regulated
Proper shipping name:
Hazard class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

IMO/IMDG UN/ID Number: Not Regulated
Proper shipping name:
Hazard class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

ICAO/IATA UN/ID Number: Not Regulated
Proper shipping name:
Hazard Class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

Canada (TDG) UN/ID Number: Not Regulated
Proper shipping name:
Hazard class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

Europe (ADR/RID) UN/ID Number: Not Regulated
Proper shipping name:
Hazard class:
Packing Group:
Exceptions:
Environmental Hazards:
Transport in Bulk:
Special Precautions:

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Available

**SECTION 15
Regulatory Information**

U.S. Federal regulations:

TSCA 8(a) PAIR: Not determined.
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 United States inventory (TSCA 8b): Not Determined
 Clean Water Act (CWA) 311: Ammonia

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Tripoli	10-30	No.	No.	No.	No.	Ye
Distillates (petroleum), hydrotreated light	10-30	Yes.	No.	No.	No.	No.
Proprietary ingredient 2	Proprietary	Yes.	No.	No.	Yes.	No.
Proprietary ingredient 3	Proprietary	Yes.	No.	No.	Yes.	No.
Ammonia	0.1-1	No.	No.	No.	Yes.	No.

SARA 313

No products were found.

State regulations

Massachusetts The following components are listed: Tripoli
New York None of the components are listed.
New Jersey The following components are listed: Tripoli
Pennsylvania The following components are listed: Tripoli

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Tripoli	Yes.	No.	No.	No.

**SECTION 16
Other Information**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

ABBREVIATIONS:

NG="NOT GIVEN"	BT="BETWEEN"
<="LESS THAN"	>="GREATER THAN"
ND = Not Determined	NA = Not Applicable

Key to abbreviations : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations