

SAFETY DATA SHEET.

Issuing date 04-Dec-2014 Revision Date 04-Dec-2014 Version 2.03

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 80-1096 COMPLETE BRAKE FINISHING TREATMENT

Recommended use of the chemical

and restrictions on use

Product code F00509

<u>Product Type</u> Extremely flammable aerosol

Synonyms None

Supplier's details

Recommended Use brake treatment.

Uses advised against No information available

Manufactured For: Kimball Midwest 4800 Roberts Rd. Columbus, OH 43228

Emergency telephone number

Chemical Emergency Phone Chemtrec 1-800-424-9300

Number

Company Emergency Phone 1-800-233-1294

Number

F00509 - 80-1096 COMPLETE BRAKE FINISHING TREATMENT

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation

May cause drowsiness or dizziness

May be harmful if swallowed and enters airways

Extremely flammable aerosol

Contains gas under pressure; may explode if heated



Appearance opaque

Physical state Aerosol

Odor Solvent

Precautionary Statements - Prevention

Wash hands thoroughly after handling

Wear protective gloves

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep 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

Precautionary Statements - Storage

Store locked up

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

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

· Toxic to aquatic life with long lasting effects

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	50-60
PETROLEUM DISTILLATES	64742-47-8	20-30
HEPTANE	64742-49-0	10-20
NAPHTHENIC OIL, SEVERELY HYDROT	64742-52-5	10-20
ALUMINUM POWDER	7429-90-5	1-10
CASTOR OIL	8001-79-4	1-10
GRAPHITE	7782-42-5	1-10

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

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Avoid contact with skin,eyes, and clothing. Avoid breathing, vapors, mist, or gas.

Eye contact Immediately flush with plenty of water. Get medical attention if irritation persists.

Skin contact Wash skin with soap and water. Get medical attention if irritation persists.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. Risk of product entering the lungs on vomiting after ingestion.

Most important symptoms/effects, acute and delayed

Main Symptoms May cause skin irritation. Inhalation causing Central Nervous System effects. ingestion

causing lung damage.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water fog. Dry chemical. Foam. Carbon dioxide (CO2). Cool containers / tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Flammable or extremely flammable aerosol. Container may burst in fire.

Explosion Data

Sensitivity to Mechanical Impact none. **Sensitivity to Static Discharge** Yes.

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. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Environmental precautions Report spills as required by local and federal regulations.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain liquid and collect with an inter,non-combustible material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not

puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventiliation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such

as electric motors and batteries. Do not spray on hot surfaces.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Store away from strong oxidizers and acids.

Aerosol Level 3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m³ 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m³	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³ 106-97-8:TWA: 800 ppm TWA: 1900 mg/m³ 75-28-5:TWA: 800 ppm TWA: 1900 mg/m³

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HEPTANE 64742-49-0	TLV: 400 ppm STEL: 500 ppm	TWA: 500 ppm	-
ALUMINUM POWDER 7429-90-5	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ Al Aluminum	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust TWA: 5 mg/m³ Al
GRAPHITE 7782-42-5	TWA: 2 mg/m³ respirable fraction all forms except graphite fibers	ÿ	IDLH: 1250 mg/m³ TWA: 2.5 mg/m³ natural respirable dust

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure controls

Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs. **Engineering Measures**

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

> > Based on propellant

provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Aerosol **Appearance** opaque

Odor Solvent

black No information available Color **Odor Threshold**

Property Values Remarks • Methods

No information available Melting/freezing point No information available Boiling point/boiling range No information available **Flash Point** -104.4 °C / -156 °F

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air upper flammability limit No information available lower flammability limit No information available

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TREATMENT

Vapor pressureNo information availableVapor densityNo information available

Specific Gravity 0.587

Water solubility Practically insoluble
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature No information available
Decomposition temperature No information available
Viscosity No information available
Explosive properties No information available

Other information

VOC Content(%) 83.21

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Store away from strong oxidizers and acids.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation Exposure to high vapour concentrations may cause nervous systems effects such as

headache, nausea, and dizziness.

Eye contact May cause slight irritation.

Skin contact Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung

damage which may be fatal.

Component Information

Component information			
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
PETROLEUM DISTILLATES 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
HEPTANE 64742-49-0	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h

Information on toxicological effects

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Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and **Symptoms**

> vomiting.May cause mild irritation.Irritating to skin.Prolonged or repeated exposure may cause dermatitis. Not acutely toxic. Aspiration into the lungs during swallowing may cause

serious lung damage which may be fatal.

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

Skin corrosion/irritation Irritating to skin.

Sensitization No information available. **Germ Cell Mutagenicity** No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

No information available.

The ingredients are not reproductive hazards. Reproductive toxicity may cause drowsiness and dizziness.

Specific target organ systemic

toxicity (single exposure) Specific target organ systemic

toxicity (repeated exposure)

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.

Target Organ Effects Aspiration hazard

Chronic toxicity

Central Vascular System (CVS), Eves, Respiratory system, Skin.

May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

0% of the mixture consists of ingredient(s) of unknown toxicity **Unknown Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 22663 mg/kg **ATEmix (dermal)** 22627 mg/kg ATEmix (inhalation-gas) 1072883 mg/l ATEmix (inhalation-vapor) 227 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
PROPANE/ISOBUTANE/N- BUTANE 68476-86-8	-	-	-	-
PETROLEUM DISTILLATES 64742-47-8	-	2.2 mg/L LC50 Lepomis macrochirus 96h static 2.4 mg/L LC50 Oncorhynchus mykiss 96h static 45 mg/L LC50 Pimephales promelas 96h flow-through	-	-
NAPHTHENIC OIL, SEVERELY HYDROT 64742-52-5	-	5000 mg/L LC50 Oncorhynchus mykiss 96h	-	1000 mg/L EC50 Daphnia magna 48h

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE	2.8
68476-86-8	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG UN1950, AEROSOLS, 2.1, LTD. QTY.

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	X	Not listed	Х	Х	Х	Х
PETROLEUM DISTILLATES	Х	Х	X	Х	Х	Х	Х	Х
HEPTANE	Х	Х	Х	Х	Х	Х	Х	Х
NAPHTHENIC OIL, SEVERELY HYDROT	Х	Х	Х	Х	Х	Х	Х	Х
ALUMINUM POWDER	Х	Х	Х	Not listed	Х	Х	Х	Х
CASTOR OIL	Х	Х	Х	Not listed	Х	Х	Х	Х
GRAPHITE	X	X	Х	Not listed	Х	Х	X	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. 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:

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Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
ALUMINUM POWDER - 7429-90-5	7429-90-5	1-10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard Yes
Reactive Hazard no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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.

U.S. State Regulations

California Proposition 65

No warning required.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ALUMINUM POWDER 7429-90-5	Х	X	X
GRAPHITE 7782-42-5	Х	X	Х

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16	OTHER	INFORMATION

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 4 Physical Hazard 1 Personal protection B

Prepared By
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Regulatory Affairs
04-Dec-2014
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Revision Note

(M)SDS sections updated

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Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet