



SAFETY DATA SHEET

Issue Date 03-26-2020

Revision Date 03-26-2020

Version 3

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

Product identifier

Product Name: QUIET BRAKES™

Other means of identification

Common Name: 0140
UN/ID No UN1993
Synonyms None
Product Categories Coating Solution, Automotive

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
MOC PRODUCTS CO., INC.
12306 Montague Street
Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500
Emergency Telephone CHEMTREC 1-800-424-9300


2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Label elements

Emergency Overview

Danger		
Hazard statements		
Harmful if swallowed		
Harmful if inhaled		
Causes skin irritation		
Causes serious eye damage		
May cause respiratory irritation. May cause drowsiness or dizziness		
Highly flammable liquid and vapor		
		
Appearance Colloidal Alcoholic Dispersion.	Physical state Liquid	Odor Sweet

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment (if metal)
 Use explosion-proof electrical/ventilating/lighting equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Keep cool

Precautionary Statements - Response

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CONTROL CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 If skin irritation occurs: Get medical advice/attention
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CONTROL CENTER or doctor/physician if you feel unwell
 IF SWALLOWED: Call a POISON CONTROL CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

Store locked up

Store in a dry place

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Isopropyl Alcohol	67-63-0	50-60	*
Isobutyl Alcohol	78-83-1	30-40	*
Graphite	7782-42-5	1-10	*
Propylene Glycol Methyl Ether	107-98-2	1-10	*
N-Butyl Alcohol	71-36-3	1-10	*

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

4. FIRST AID MEASURES

First aid measures

Skin contact

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation

Remove to fresh air. Keep at rest position comfortable for breathing. Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

Ingestion

Call a physician. If swallowed, call a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms

Drowsiness. Dizziness, Respiratory irritation, Skin irritation, Eye irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider

Low hazard for usual industrial or commercial handling.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO₂, water spray (fog) or alcohol resistant foam.

Small Fire

Dry chemical or CO₂.

Large Fire Water spray or fog; Alcohol resistant foam.

Explosive properties: Vapors may form explosive mixture with air. May form explosive peroxides.

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors may cause flash fire or explosion. Keep product and empty container away from heat and sources of ignition. May form peroxides of unknown stability. Product may ignite and burn at temperatures exceeding the flash point. The product causes irritation of eyes, skin and mucus membranes. Vapors may travel to source of ignition and flash back. Flash back possible over considerable distance.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO₂), Volatile organic compounds, Hydrocarbons.

Specific methods:

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes. May be ignited by heat, sparks or flames.

Special firefighting procedures:

Extremely flammable liquid and vapor. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Dike to collect large liquid spills. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Component
Isopropyl Alcohol
67-63-0 (50-60)

ACGIH - test
40

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Ventilate closed spaces before entry. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Avoid dust formation. Use spark-proof tools and explosion-proof equipment.

For emergency responders Use personal protection recommended in Section 8. Remove all sources of ignition. Ventilate the area. Pay attention to flashback. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions

Environmental precautions: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for clean-up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Prevention of secondary hazards Avoid dust formation. Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing. Protect against physical damage. Store between 40 and 120 °F. Keep containers tightly closed in a dry, cool and well-ventilated place.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Materials to avoid: Oxidizing agents, Acid chlorides, Acid anhydrides, Alkali metals, Halogens, Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Isobutyl Alcohol 78-83-1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³	IDLH: 1600 ppm TWA: 50 ppm TWA: 150 mg/m ³
Graphite 7782-42-5	TWA: 2 mg/m ³ respirable particulate matter all forms except graphite fibers	TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ respirable fraction synthetic TWA: 2.5 mg/m ³ respirable dust natural TWA: 10 mg/m ³ total dust synthetic	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ natural respirable dust
Propylene Glycol Methyl Ether 107-98-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 360 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
N-Butyl Alcohol 71-36-3	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³

Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear normal work clothing, Chemical resistant gloves: (consult with the specific manufacturer to confirm performance).

Respiratory protection Ensure adequate ventilation, especially in confined areas. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing. Use personal protective equipment. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Sweet
Appearance	Colloidal Alcoholic Dispersion.	Odor threshold	No information available
Color	Black		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	Not applicable.
Melting point/freezing point	No information available	
Boiling point / boiling range	> 81 °C / 177 °F	
Flash point	16 °C / 60 °F	
Evaporation rate	Slower than ether	Pensky-Martens Closed Cup (PMCC)
Flammability (solid, gas)	No information available	Slower than ether
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	
Specific Gravity	0.83	
Water solubility	Miscible in water: ~94%	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	~94
Density	0.83 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Possibility of Hazardous Reactions May form peroxides of unknown stability May react with oxidizing agents
Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid: Oxidizing agents, Acid chlorides, Acid anhydrides, Alkali metals, Halogens, Strong acids.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon dioxide (CO₂), Carbon monoxide, Hydrocarbons, Volatile organic compounds.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.
Inhalation	Harmful by inhalation: Avoid breathing vapors or mists. Do not breathe dust.
Eye contact	Avoid contact with eyes: Causes serious eye damage.
Skin Contact	Causes skin irritation. May be harmful in contact with skin.
Ingestion	Harmful if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Isobutyl Alcohol 78-83-1	= 2460 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	> 6.5 mg/L (Rat) 4 h
Graphite 7782-42-5	> 10000 mg/kg (Rat)	-	> 2000 mg/m ³ (Rat) 4 h
Propylene Glycol Methyl Ether 107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
N-Butyl Alcohol 71-36-3	790 mg/kg (Rat)	3400 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h

Information on toxicological effects

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

Sensitization	Skin Sensitization: Not expected. Respiratory Sensitization: Not classified.
Mutagenic effects:	No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Category 3: Not Classifiable.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		

Reproductive toxicity	No information available.
STOT - single exposure	Category 3: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT - repeated exposure	Not classified.
Chronic toxicity	Prolonged skin contact may defat the skin and produce dermatitis.
Subchronic toxicity	No information available.
Target Organ Effects	Eyes, Kidney, Liver, Central nervous system, Ears, Respiratory system. Blood.
Neurological effects	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other adverse effects	Caused kidney effects in male rats which are not considered relevant to humans.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

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

ATEmix (oral)	1984 mg/kg
ATEmix (dermal)	3967 mg/kg
ATEmix (inhalation-vapor)	20 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

6 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50 11130: 96 h Pimephales promelas mg/L LC50 static		13299: 48 h Daphnia magna mg/L EC50
Isobutyl Alcohol 78-83-1		1370 - 1670: 96 h Pimephales promelas mg/L LC50 flow-through 375: 96 h Pimephales promelas mg/L LC50 static 1480 - 1730: 96 h Lepomis macrochirus mg/L LC50 flow-through 1120 - 1520: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		1070 - 1933: 48 h Daphnia magna mg/L EC50 Static 1300: 48 h Daphnia magna mg/L EC50
Propylene Glycol Methyl Ether 107-98-2		20.8: 96 h Pimephales promelas g/L LC50 static		23300: 48 h Daphnia magna mg/L EC50
N-Butyl Alcohol 71-36-3	500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h Desmodesmus subspicatus mg/L EC50	100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1910000: 96 h Pimephales promelas µg/L LC50 static 1740: 96 h Pimephales promelas mg/L LC50 flow-through 1730 - 1910: 96 h Pimephales promelas mg/L LC50 static		1897 - 2072: 48 h Daphnia magna mg/L EC50 Static 1983: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

Bioaccumulative potential.

Mobility

This product is miscible in water. If product enters soil, one or more constituents will be mobile and may contaminate ground water.

Chemical Name	Partition coefficient
Isopropyl Alcohol 67-63-0	0.05

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

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

Contaminated packaging

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Limited quantity (LQ)

< 1 Liter

DOT

UN/ID No	UN1993
Proper Shipping Name:	Flammable liquids, n.o.s. (Isopropanol, Isobutanol)
Hazard Class	3
Packing Group:	II
Emergency Response Guide Number	128

IATA

UN/ID No	UN1993
Proper Shipping Name:	Flammable liquids, n.o.s. (Isopropanol, Isobutanol)
Hazard Class	3
Packing Group:	II

IMDG

UN/ID No	UN1993
Proper Shipping Name:	Flammable liquids, n.o.s. (Isopropanol, Isobutanol)
Hazard Class	3
Packing Group:	II

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

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 Number	Weight %	SARA 313 - Threshold Values %
N-Butyl Alcohol 71-36-3	71-36-3	1-10	1.0 % de minimis concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Isobutyl Alcohol 78-83-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
N-Butyl Alcohol 71-36-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating

Health hazards 2

Flammability 3

Instability 0

Physical and Chemical Properties -

HMIS Rating

Health hazards 2*

Flammability 3

Physical hazards 0

Personal protection B

Chronic Hazard Star Legend

* = *Chronic Health Hazard*

Prepared by

Environmental Health and Safety Department

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Revision Note

The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 2, 3, 4, 7, 11.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet