



SAFETY DATA SHEET

Issue Date 02-01-2018

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Version 4

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

Product identifier

Product Name: THROTTLE-BODY & AIR-INTAKE CLEANER

Other means of identification

Common Name: 1043

UN/ID No UN1950

Synonyms None

Product Categories Aerosol, Cleaner, Automotive, Organic solvents

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


Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable aerosols	Category 2

Label elements

Emergency Overview

Danger

Hazard statements
 Causes skin irritation
 Causes severe eye irritation
 Suspected of damaging fertility or the unborn child
 May cause drowsiness or dizziness
 May cause damage to organs through prolonged or repeated exposure
 Flammable aerosol
 Pressurized container: May burst if heated



Appearance Liquid, Mobile, Compressed gas. **Physical state** Aerosol **Odor** Acetone

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/face protection
- Do not breathe 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 exposed or concerned: Get medical advice/attention
 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
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

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
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 if swallowed
 - Harmful to aquatic life with long lasting effects
- 10.08 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Acetone	67-64-1	70-85	*
Carbon Dioxide	124-38-9	10-30	*
Toluene	108-88-3	5-10	*
Methyl Alcohol	67-56-1	0-1	*

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

4. FIRST AID MEASURES

First aid measures

- General advice** If exposed or concerned: Get medical advice/attention.
- Skin contact** Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.
- Inhalation** IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention.
- Notes to Physician** Aspiration into lungs can produce severe lung damage.

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 Avoid breathing vapors or mists. Avoid contact with skin.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray or fog; Dry chemical, Carbon dioxide (CO₂), Alcohol-resistant foam, Sand.

Small Fire Dry chemical or CO₂.

Large Fire Alcohol resistant foam, Water spray or fog. Sand.

Explosive properties: Pressurized container: May burst if heated. Risk of explosion if heated under confinement.

Specific hazards arising from the chemical

Flammable aerosol. Pressurized container: May burst if heated. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Vapors are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

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

Specific methods:

Sensitivity to Mechanical Impact None.

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

Special firefighting procedures:

FLAMMABLE AEROSOL. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use a solid water stream as it may scatter and spread fire. Water mist may be used to cool closed containers.

Component	ACGIH - test
Acetone	25
67-64-1 (70-85)	
Toluene	0.02
108-88-3 (5-10)	0.03
	0.3
Methyl Alcohol	15
67-56-1 (0-1)	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Avoid contact with skin, eyes and clothing.

For emergency responders Use personal protection recommended in Section 8. Remove all sources of ignition. Pay attention to flashback. Ventilate the area.

Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Avoid subsoil penetration.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk. Remove all sources of ignition. Ventilate the area. Use non-sparking tools.

Methods for clean-up: Pressurized container: Do not pierce or burn, even after use. Clean-up methods - small spillage: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Contents under pressure. Protect from physical damage. Do not store at temperatures above 122°F (50°C). Protect from direct sunlight. Keep away from heat, sparks and flame. Keep away from any incompatible materials (See Section 10).

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: Acids, Bases, Oxidizing agents, Reducing agents, Light and/or alkaline metals; Acid chlorides, Acid anhydrides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ TWA: 750 ppm TWA: 1800 mg/m ³	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³
Carbon Dioxide 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³ TWA: 10000 ppm TWA: 18000 mg/m ³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm TWA: 100 ppm TWA: 375 mg/m ³	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
Methyl Alcohol 67-56-1	S* STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

Appropriate engineering controls

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

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. Solvent-resistant gloves, (consult with the specific manufacturer to confirm performance).
- Respiratory protection** Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. 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. Wear suitable gloves and eye/face protection. Avoid breathing vapors or mists. 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	Aerosol	Odor	Acetone
Appearance	Liquid, Mobile, Compressed gas.	Odor threshold	306-653 ppm
Color	Clear, Colorless to pale yellow		
Property	Values	Remarks • Method	
pH	N/A	Not applicable	
Melting point/freezing point	-95 °C / -139 °F	(Lowest liquid component)	
Boiling point / boiling range	56 °C / 133 °F	(Lowest liquid component)	
Flash point	-18 °C / -0.4 °F	Of liquid	
Evaporation rate	6	n-Butyl acetate = 1	
Flammability (solid, gas)	No information available		
Flammability Limits in Air		(Lowest liquid component)	
Upper flammability limit	12.8%		
Lower flammability limit	2.0%		
Vapor pressure	No Data Available		
Vapor density	2 (air = 1)	@ 20 °C	
Specific Gravity	0.80	@ 20° C	
Water solubility	Slightly soluble		
Solubility in other solvents	No Data Available		
Partition coefficient	-0.24	Based on data provided	
Autoignition temperature	465 °C / 869 °F	(Lowest liquid component)	
Decomposition temperature	No Data Available		
Kinematic viscosity	0.417 mm ² /s		
Dynamic viscosity	0.33 mPa s		
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 (%)	9.2
	Contains California VOC exempt solvent
Density	0.80 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Temperatures above 120 °C. Keep away from direct sunlight.

Incompatible materials

Materials to avoid: Acids, Bases, Oxidizing agents, Reducing agents, Light and/or alkaline metals; Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Causes skin irritation. Causes severe eye irritation. Suspected of damaging fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Inhalation	Avoid breathing vapors or mists: May cause irritation of respiratory tract. Propellant is a simple asphyxiant.
Eye contact	Avoid contact with eyes: Causes severe eye irritation. Inhalation, ingestion, or skin absorption of methanol can cause blindness.
Skin Contact	Causes skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	May cause additional effects as listed under "Inhalation". Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	=5800 mg/kg (Rat)	=7426 mg/kg (Guinea pig)	= 50100 mg/m ³ (Rat) 8 h
Carbon Dioxide 124-38-9	-	-	-
Toluene 108-88-3	= 636 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Methyl Alcohol 67-56-1	= 6200 mg/kg (Rat)	-	= 22500 ppm (Rat) 8 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
Toluene 108-88-3		Group 3 (not classified)		

Reproductive toxicity	Product is or contains a chemical or chemicals which is/are (a) known or suspected reproductive hazard(s): Toluene (CAS#108-88-3).
STOT - single exposure	Category 3: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT - repeated exposure	Category 2: May cause disorder and damage to the: Eyes, Central nervous system, Reproductive System, Respiratory system, Liver, Kidney.
Chronic toxicity	Prolonged exposure may cause chronic effects. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. May cause adverse kidney effects. May cause adverse liver effects. May cause harm to the unborn child.
Target Organ Effects	Liver, Kidney, Central nervous system, Bladder, Brain.
Neurological effects	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system.
Other adverse effects	Experiments have shown reproductive toxicity effects in male and female laboratory animals. Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 10.08 % of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral)	3451 mg/kg
ATEmix (dermal)	24490 mg/kg
ATEmix (inhalation-dust/mist)	50.1 mg/l
ATEmix (inhalation-vapor)	139 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

10.08 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetone 67-64-1		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50		10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
Toluene 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
Methyl Alcohol 67-56-1		28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through		

Persistence and degradability

Readily biodegradable: Soil, Water, Soil (anaerobic conditions).

Bioaccumulation

Bioaccumulative potential.

Mobility

No information available.

Chemical Name	Partition coefficient
Acetone 67-64-1	-0.24
Methyl Alcohol 67-56-1	-0.77

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Limited quantity (LQ) < 1 Liter

DOT

UN/ID No	UN1950
Proper Shipping Name:	Aerosol, Flammable
Hazard Class	2.1
Packing Group:	N/A
Emergency Response Guide Number	126

IATA

UN/ID No	UN1950
Proper Shipping Name:	Aerosol, Flammable
Hazard Class	2.1
Packing Group:	N/A

IMDG

UN/ID No	UN1950
Proper Shipping Name:	Aerosols
Hazard Class	2
Packing Group:	N/A

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 %
Toluene 108-88-3	108-88-3	5-10	1.0 % de minimis concentration
Methyl Alcohol 67-56-1	67-56-1	0-1	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	Yes
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
Toluene 108-88-3	1000 lb	X	X	X

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)
Acetone 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Toluene 108-88-3	1000 lb 1 lb		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
Methyl Alcohol 67-56-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Toluene	108-88-3	Developmental
Methyl Alcohol	67-56-1	Developmental
Ethylbenzene	100-41-4	Carcinogen

Cumene	98-82-8	Carcinogen
Benzene	71-43-2	Carcinogen Developmental Male Reproductive

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 -

Instability 0

Physical and Chemical Properties NFPA Level 2 aerosol

HMIS Rating

Health hazards 2*

Flammability 3

Physical hazards 1

Personal protection B, Flammability classification is under HMIS III

Chronic Hazard Star Legend

* = *Chronic Health Hazard*

Prepared by

Environmental Health and Safety Department

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Revision Note

This data sheet contains changes from the previous version in section(s): 1, 15.

Disclaimer

The information provided in this Material 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