



SAFETY DATA SHEET

1. Identification

GHS product identifier BG MOA®
Product code 110M
Version # 1.0
Issue date 03-08-2021
Revision date 03-08-2021
CAS # Mixture
Recommended use Automotive
Recommended Restrictions Not available.
Synonym(s) P110 * Component in: 6567M, 6569M.
Manufacturer information BG Products Inc.
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2. Hazards identification

GHS classification
Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
Sensitization, skin Category 1
Environmental hazards Not classified.

GHS label elements

Signal word Warning



Hazard statement Causes skin irritation. May cause an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing mist/vapors. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification None known.

Supplemental information 26.65% of the mixture consists of component(s) of unknown acute oral toxicity. 27.87% of the mixture consists of component(s) of unknown acute dermal toxicity. 96.32% of the mixture consists of component(s) of unknown acute inhalation toxicity. 96.32% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 96.32% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Components	CAS #	Percent
HYDROTREATED HEAVY PARAFINIC DISTILLATES	64742-54-7	60 - 70
BUTANEDIOIC ACID THIO-BIS ESTER	126104-53-8	5 - 10
bis(nonylphenyl)amine	36878-20-3	3 - 5
MINERAL OIL	64742-65-0	3 - 5

Components	CAS #	Percent
POLYOLEFIN AMIDE ALKENE AMINE	68439-80-5	3 - 5
POLYBUTENE	9003-29-6	1 - 3
Zinc Diisooctyl Dithiophosphate	28629-66-5	1 - 3

4. First aid measures

First aid procedures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Notes to physician

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General advice

Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Protection of fire-fighters

Move containers from fire area if you can do so without risk.

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Handling

Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment.

Storage

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls / personal protection

Control parameters

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
HYDROTREATED HEAVY PARAFINIC DISTILLATES (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
MINERAL OIL (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Suitable gloves can be recommended by the glove supplier.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Color

Not available.

Form

Liquid.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/Freezing point

Not available.

Boiling point

680 °F (360 °C) estimated

Flash point

318.2 °F (159.0 °C) Closed Cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Flammability limits in air, lower, % by volume

Not available.

Flammability limits in air, upper, % by volume

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

500 °F (260 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Specific gravity

0.89265 estimated

VOC (Weight %)

1.86 % estimated

Percent volatile

1.77 % estimated

Density

0.89 g/cm3 estimated

Other data

Explosive properties

Not explosive.

Kinematic viscosity	64.76 mm ² /s
Kinematic viscosity temp	104 °F (40 °C)
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Toxicological data

Components	Species	Test Results
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HYDROTREATED HEAVY PARAFINIC DISTILLATES (CAS 64742-54-7)

Acute

Dermal

LD50	Rabbit	> 5000 mg/kg
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Oral

LD50	Rabbit	> 15000 mg/kg
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Zinc Diisooctyl Dithiophosphate (CAS 28629-66-5)

Acute

Oral

LD50	Rat	3.1 g/kg
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Routes of exposure	Inhalation. Skin contact. Eye contact.
Toxicological information	Occupational exposure to the substance or mixture may cause adverse effects.
Acute toxicity	Not known.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitizer	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

HYDROTREATED HEAVY PARAFINIC DISTILLATES (CAS 64742-54-7)	A4 Not classifiable as a human carcinogen.
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MINERAL OIL (CAS 64742-65-0)	A4 Not classifiable as a human carcinogen.
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IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROTREATED HEAVY PARAFINIC DISTILLATES (CAS 64742-54-7)	3 Not classifiable as to carcinogenicity to humans.
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MINERAL OIL (CAS 64742-65-0)	3 Not classifiable as to carcinogenicity to humans.
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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
Symptoms	Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence / degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulation	
Aquatic toxicity	Not classified.
Mobility	No data available for this product.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to IMO instruments	Not established.

15. Regulatory information

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Disclaimer	BG Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
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