



EARTH ARMOUR® Series

1101 3rd Street Southeast
Canton, OH 44707 USA
330.456.3121
800.321.0699
www.midwestind.com

SAFETY DATA SHEET

SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

TRADE NAME: EARTH ARMOUR® Series (2100, 2200, 7100, 7200)
MANUFACTURER: Midwest Industrial Supply, Inc
1101 3rd Street SE
Canton, OH 44707
EMERGENCY PHONE NUMBER: 330-456-3121
RECOMMENDED USE: Dust Suppressant, stabilization agent
CHEMICAL NAME: Refined paraffinic oil, isoalkane with or without binder
SYNONYMS: Dust retardant

SECTION II -- HAZARDS IDENTIFICATION

CLASSIFICATION: Aspiration Hazard
Eye Irritant, 2B
SIGNAL WORD: Danger
HAZARD STATEMENT(S): May be fatal if swallowed and enters airway
Causes eye irritation

Pictograms



Aspiration
Hazard

PRECAUTIONARY STATEMENT(S): Do not induce vomiting.
If swallowed, contact medical professionals or poison control.
Flush eyes for several minutes.
Wash hands and exposed areas thoroughly.
Store locked up.
Dispose of contents and container in approved facility.
Contact physician if irritation persists.

OTHER HAZARDS: Not classified as flammable but will burn
Prolonged or repeated skin contact without proper cleaning can clog pores on the skin resulting in disorders such as acne.



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SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Severly hydrotreated, high viscosity, synthetic iso-alkane	72623-86-0	variable
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	variable
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	variable
White mineral oil	8042-47-5	variable
Distillates (petroleum), solvent dewaxed heavy paraffinic	64742-65-0	variable
Polyolefin	9003-27-4	>20%

SECTION IV -- FIRST AID MEASURES

INHALATION:	Move subject to fresh air. If victim is not breathing, perform artificial respiration. Administer oxygen if available. Keep victim warm and at rest. Seek medical attention as soon as possible.
SKIN:	Flush with large amount of water or wash with soap and water. Seek medical attention as soon as possible.
EYES:	Flush eyes with flowing water at least 15 minutes. Get medical attention. Do not use any eye ointment. Remove contact lenses.
INGESTION:	If swallowed do not induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below nips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater then 101 F (38.3 C), shortness of breath, chest congestion or continued coughing or wheezing.
SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:	If material enters lungs, signs and symptoms may include : coughing, choking wheezing, difficulty in breathing, chest congestion, shortness of breath, and /or fever. The on set of respiratory symptoms may be delayed for several hours after exposure. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried cracked appearance. Ingestion may result in nausea, vomiting and/or diarrhea.
IMMEDIATE MEDICAL ATTENTION, SPECIAL TREATMENT:	Treat symptomatically. Call a doctor or poison control center for guidance.
FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT	Respiratory and eye protection are required for firefighting personnel. Self contained breathing apparatus (SCBA) as required for conditions.



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OR PRECAUTIONS: When administering first aid ensure that you are wearing the proper personal protective equipment.

SECTION V -- FIREFIGHTING MEASURES

EXTINGUISHING MEDIUM: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth on small fires. DO not use water in a jet, it can spread fire.

SPECIAL FIREFIGHTING PROCEDURES: If a tank, railcar or tank truck is involved in a fire isolate for 0.5 miles in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn itself out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion.

SPECIAL HAZARDS DURING FIREFIGHTING Hazardous combustion product may include: a complex mixture of airborne solid and liquid particulate and gases (smoke). Carbon monoxide may be evolved is incomplete combustion occurs. Unidentified organic and inorganic compounds.

FIREFIGHTER PROTECTIVE EQUIPMENT: Proper protective equipment including chemical resistant gloves, chemical resistant suit is indicated if large contact with spilled product is expected. Self-contained breathing apparatus.

SECTION VI -- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Safety glasses and gloves. Avoid contact with eyes and skin

ENVIRONMENTAL PRECAUTIONS: Use appropriate containment to avoid environmental contamination. Prevent from spreading into drains, ditches, river, streams by using barriers of earth or sand. Notify local authorities if significant spillage cannot be contained.

SPILL AND LEAK PROCEDURES: ELIMINATE ALL IGNITION SOURCES. Stop leak without risk and contain spill. Absorb with inert absorbent materials such as clay or sand. Place absorbent in closed metal containers for later disposal or burn in appropriate facility. Keep spills out of sewers and open bodies of water. Slippery when spilled.

SECTION VII -- HANDLING AND STORAGE

STORAGE: Store locked up. Keep in cool, dry, ventilated storage area and in closed containers. Keep away from sources of ignition and oxidizing materials.
Suitable materials for storage: mild steel or high density polyethylene.
NOT SUITABLE: PVC



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HANDLING:

Polyethylene containers should not be exposed to high temperatures because of possible container distortion.

KEEP AWAY FROM SOURCES OF IGNITION. Do not reuse empty containers. Practice good hygiene. Wash hands before eating. Launder clothes before reuse. Discard saturated leather goods. Use local exhaust ventilation if there is a risk of inhalation of vapors, mists or aerosols. Avoid prolonged or repeated skin contact. Avoid breathing vapors and mists. Safely dispose of contaminated rags or cleaning material in order to prevent fires. This material is a potential static accumulator. Proper grounding and bonding procedures should be used during bulk transfers.

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

ACGIH 8 hour TLV-TWA

5 mg/m³ for oil mists/synthetic fluid mists.

OSHA TWA

5 mg/m³ for oil mists/synthetic fluid mists.

VENTILATION:

Under normal handling conditions special ventilation is not necessary. If operation generates mist or fumes, use ventilation of keep exposure to airborne contaminants below exposure limits.

RESPIRATORY PROTECTION:

None required if good ventilation is maintained. If mist is generated by heating or spraying, use a NIOSH approved organic respirator with a mist filter.

EYE PROTECTION:

Chemical splash, goggles recommended.

PROTECTIVE CLOTHING:

Clothing to minimize skin contact, long sleeves, boots or shoes. For casual contact PVC gloves are suitable, for prolonged contact use neoprene or nitrile gloves.

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid

Odor:

None

Vapor Density:

N/D

Solubility in Water:

Insoluble

Relative Density:

0.82 - 0.88 g/mL @ 68°F

Melting/Freezing Point:

Will not freeze

VOC Content:

N/D

Viscosity:

25 - 120 cSt @ 20°C

Flashpoint:

>170°C (338°F)

Flammable Limits LEL:

N/D

Flammable Limits UEL:

N/D

Odor Threshold:

N/D



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Initial Boiling Point/Range:	>280 C (536 F)
Vapor Pressure:	Negligible at ambient temperature
Evaporation Rate:	N/D
pH:	N/A, not an aqueous solution or emulsion
Octanol/Water Coefficient:	N/D
Decomposition Temperature:	N/D
Flammability (solid/gas):	N/A
Auto Ignition Temperature:	>320°C (608°F)

SECTION X -- STABILITY AND REACTIVITY

REACTIVITY:	None
CHEMICAL STABILITY:	Stable
CHEMICAL INCOMPATIBILITY:	Can react with strong organic oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS:	None expected under normal storage conditions.
THERMAL DECOMPOSITION PRODUCTS:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, smoke, hydrocarbons and irritating fumes.
HAZARDOUS POLYMERIZATION:	Does not occur under normal industrial conditions.
CONDITIONS TO AVOID:	Excessive heat and flame, direct sunlight.

SECTION XI -- TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION:	Inhalation is highly unlikely, however, prolonged or repeated inhalation of fumes or mists may cause irritation to the respiratory tract. Product deposits in lungs may lead to fibrosis and reduced pulmonary function.
ACUTE INHALATION TOXICITY:	LC50 (rat) >5mg/L, exposure time 4 hours, Low toxicity by inhalation
ASPIRATION TOXICITY:	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
INGESTION:	Relatively non-toxic to digestive tract.
SKIN:	It is not a skin irritant, however, prolonged or repeated contact may cause skin irritation, dermatitis, or oil acne.
EYES:	Prolonged or repeated contact may be irritating to eyes. Will not cause permanent damage.
SKIN SENSITIZER:	Not expected to be a skin sensitizer.
CARCINOGENICITY:	Based on studies to date EARTH ARMOUR® is not known to be carcinogenic to humans.



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GERM CELL MUTAGENICITY: Based on data to date, it is not expected to be mutagenic.

REPRODUCTIVE TOXIN: Based on data to date, it does not pose a reproductive risk.

SECTION XII -- ECOLOGICAL INFORMATION

Aquatic toxicity testing of Earth Armour® shows that in all tested species, both acute and chronic, the toxicity is "practically non-toxic" (LC50 > 100 ppm) per EPA definition.

C. dubia	acute	48 hr. LC50	> 1000 ppm
	chronic	IC50	> 1000 ppm
P. promelas	acute	96 hr. LC50	> 1000 ppm
	chronic	IC25	> 1000 ppm
M. bahia	acute	96 hr. LC50	> 1000 ppm
	chronic	IC50	> 1000 ppm
M. mykiss	acute	96 hr. LC50	> 1000 ppm
	chronic	IC50	> 1000 ppm

Biodegradability: Expected to be inherently biodegradable.

Bioaccumulation: Has the potential to bioaccumulate

Mobility in Soil Earth Armour® has an affinity to soil and will absorb into the particles and will not be mobile.

SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV -- TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL DESCRIPTION: Non-regulated

PROPER SHIPPING NAME: EARTH ARMOUR®

UN NUMBER: N/D

HAZARD CLASS/PACKAGING GROUP: Non-regulated

LABELS REQUIRED: None

SECTION XV -- REGULATORY INFORMATION

NFPA RATING:

Health:

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HMIS RATING: Health:

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Flammability:	1	Flammability:	1
Instability:	0	Physical Hazard:	0
		PPE:	B

EPA SARA Title III hazard class: None
OSHA HCS hazard class: Aspiration toxicity
EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity:

This material does not contain any components with CERCLA RQ. Earth Armour® is an oil and under the CERCLA Petroleum exclusion. Therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substance: none
SARA 311/312 Hazards: Immediate (acute) health hazard
SARA 302: none
SARA 313: none
Clean Water Act (CWA): none
TSCA: Listed
EINECS: Listed or polymer exempt
DSL: Listed
California Proposition 65: Does not contain any Prop 65 chemicals.

SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D.	Not Determined	N.A.	Not Applicable	N.T.	Not Tested
<	Less Than	>	More Than		