



# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification

#### 1.1. Identification

Trade name : Alco Shield – Granular+ Ice and Water Protector  
CAS No : 8052-42-4  
Product code : 275  
Synonyms : asphalt / asphalt blending stocks: straight run residue / asphalt, not cut back / asphalt, petroleum / asphalt, straight reduced / asphalt, straight run / asphalt, syriac / bitumen / bitumes, hot / carpeting medium / compact bitumen / earth pitch / Elevated temperature liquid, n.o.s. / Elevated temperature liquid, n.o.s., at or above 100 °C and below its flashpoint (including molten metals, molten salts, etc.), filled at a temperature higher than 190 °C / judean pitch / mineral pitch / petroleum asphalt / petroleum pitch / petroleum residue, asphalt / petroleum roofing tar / pitch, judean / residual asphalt / road asphalt / road binder / road tar / seal-coating material

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial use  
Coating: component  
Adhesive: component

#### 1.3. Supplier

ALCO PRODUCTS, LLC  
580 St. Jean  
Detroit, MI 48214  
T (313) 823-7500 - F (313) 331-4726  
[info@alco-products.com](mailto:info@alco-products.com) - [www.alco-products.com](http://www.alco-products.com)

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300 CHEMTREC

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Carc. 2 H351 Suspected of causing cancer

Full text of hazard classes and H-statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H351 - Suspected of causing cancer  
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P405 - Store locked up  
P501 - Dispose of contents/container to ...

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type : Multi-constituent

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name : ALCO SHIELD – Granular+ Ice and Water Protector  
CAS No : 8052-42-4

Name	Product identifier	%	GHS-US classification
asphaltic bitumen, not cut back	(CAS No) 8052-42-4	100	Skin Irrit. 2, H315 Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : In case of burns: Wash immediately with lots of water (15 minutes)/shower. Do not tear off solidified product from the skin. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
- First-aid measures after eye contact : In case of burns: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.
- First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/injuries after inhalation : ON HEATING: Headache. Irritation of the respiratory tract. Nausea.
- Symptoms/injuries after skin contact : ON HEATING: Burns.
- Symptoms/injuries after eye contact : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the eye tissue.
- Symptoms/injuries after ingestion : No data available.
- Chronic symptoms : No effects known.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Polyvalent foam. BC powder. Sand/earth. Carbon dioxide.
- Unsuitable extinguishing media : Container may slop over if solid jet (water/foam) is applied.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : DIRECT FIRE HAZARD. Not easily combustible. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard.
- Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.
- Reactivity : In molten state: reacts violently with water (moisture). On heating: formation of small quantities of hydrogen sulphide. Upon combustion: CO and CO<sub>2</sub> are formed.

### 5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.
- Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. See "Material-Handling" to select protective clothing.
- Emergency procedures : Mark the danger area. No naked flames. Wash contaminated clothes.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.
- Methods for cleaning up : If melted: allow liquid to solidify before taking it up. Start cleanup only if spill has cooled completely. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage temperature : > 21 °C
- Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.
- Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents.
- Storage area : Keep container in a well-ventilated place. Fireproof storeroom. Meet the legal requirements.
- Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
- Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Alco Shield - Granular Ice and Water Protector (8052-42-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Asphalt (Bitumen) fume, as benzene-soluble aerosol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
asphaltic bitumen, not cut back (8052-42-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Asphalt (Bitumen) fume, as benzene-soluble aerosol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)

#### 8.2. Appropriate engineering controls

No additional information available

#### 8.3. Individual protection measures/Personal protective equipment

##### Materials for protective clothing:

GIVE GOOD RESISTANCE: leather. viton. GIVE LESS RESISTANCE: neoprene. GIVE POOR RESISTANCE: butyl rubber. chlorosulfonated polyethylene

##### Hand protection:

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Heatproof clothing

### Respiratory protection:

On heating: Gas mask with filter type A

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Color	: Dark brown to black
Odor	: Characteristic odour
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 370 °C
Flash point	: 204 - 288 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: > 1
Relative density	: > 1
Solubility	: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in tetrachloromethane. Soluble in carbondisulfide. Soluble in turpentine. Water: insoluble
Log Pow	: > 6 (Calculated)
Auto-ignition temperature	: 350 - 485 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: > 0.17 Pa.s (135 °C)
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

Softening point : > 45 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In molten state: reacts violently with water (moisture). On heating: formation of small quantities of hydrogen sulphide. Upon combustion: CO and CO<sub>2</sub> are formed.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Alco Shield - Granular Ice and Water Protector (8052-42-4)

LD50 oral rat	> 2000 mg/kg (Rat)
---------------	--------------------

LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
--------------------	-----------------------

#### asphaltic bitumen, not cut back (8052-42-4)

LD50 oral rat	> 2000 mg/kg (Rat)
---------------	--------------------

LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
--------------------	-----------------------

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

#### Alco Shield - Granular Ice and Water Protector (8052-42-4)

IARC group	3 - Not classifiable
------------	----------------------

#### asphaltic bitumen, not cut back (8052-42-4)

IARC group	3 - Not classifiable
------------	----------------------

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : ON HEATING: Headache. Irritation of the respiratory tract. Nausea.

Symptoms/injuries after skin contact : ON HEATING: Burns.

Symptoms/injuries after eye contact : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the eye tissue.

Symptoms/injuries after ingestion : No data available.

Chronic symptoms : No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : No water pollutant (surface water). Fouling to shoreline. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to aquatic organisms.

### 12.2. Persistence and degradability

#### Alco Shield – Granular+ Ice and Water Protector (8052-42-4)

Persistence and degradability	Not readily biodegradable in water.
-------------------------------	-------------------------------------

#### asphaltic bitumen, not cut back (8052-42-4)

Persistence and degradability	Not readily biodegradable in water.
-------------------------------	-------------------------------------

### 12.3. Bioaccumulative potential

#### Alco Shield – Granular+ Ice and Water Protector (8052-42-4)

Log Pow	> 6 (Calculated)
---------	------------------

Bioaccumulative potential	Not bioaccumulative.
---------------------------	----------------------

#### asphaltic bitumen, not cut back (8052-42-4)

Log Pow	> 6 (Calculated)
---------	------------------

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### asphaltic bitumen, not cut back (8052-42-4)

Bioaccumulative potential	Not bioaccumulative.
---------------------------	----------------------

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.  
GWPmix comment : No known effects from this product.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Recycle/reuse. Dissolve or mix with a combustible solvent. Remove to an authorized dump. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.  
Additional information : Can be considered as non hazardous waste according to Directive 2008/98/EC.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1999 Tars, liquid, 3, II  
UN-No.(DOT) : UN1999  
Proper Shipping Name (DOT) : Tars, liquid  
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Packing group (DOT) : II - Medium Danger  
Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).  
B13 - A nonspecification cargo tank motor vehicle authorized in 173.247 of this subchapter must be at least equivalent in design and in construction to a DOT 406 cargo tank or MC 306 cargo tank (if constructed before August 31, 1995), except as follows: a. Packaging equivalent to MC 306 cargo tanks are excepted from the certification, venting, and emergency flow requirements of the MC 306 specification. b. Packaging equivalent to DOT 406 cargo tanks are excepted from 178.3457(d)(5), circumferential reinforcements; 178.34510, pressure relief; 178.34511, outlets; 178.34514, marking, and 178.34515, certification. c. Packaging are excepted from the design stress limits at elevated temperatures, as described in Section VIII of the ASME Code (IBR, see 171.7 of this subchapter). However, the design stress limits may not exceed 25 percent of the stress for 0 temper at the maximum design temperature of the cargo tank, as specified in the Aluminum Association's Aluminum Standards and Data (IBR, see 171.7 of this subchapter).  
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)  
TP3 - The maximum degree of filling (in %) for solids transported above their melting points and for elevated temperature liquids shall be determined by the following: Degree of filling =  $95 \cdot \frac{dr}{df}$  Where: df and dr are the mean densities of the liquid at the mean temperature of the liquid during filling and the maximum mean bulk temperature during transport respectively.  
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 130
Other information	: No supplementary information available.

### TDG

#### Transport by sea

Transport document description (IMDG)	: UN 1999 TARS, LIQUID, 3, II
UN-No. (IMDG)	: 1999
Proper Shipping Name (IMDG)	: TARS, LIQUID
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 5 L
EmS-No. (1)	: F-A
EmS-No. (2)	: S-P

#### Air transport

Transport document description (IATA)	: UN 1999 Tars, liquid, 3, II
UN-No.(IATA)	: 1999
Proper Shipping Name (IATA)	: Tars, liquid
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

# Alco Shield – Granular+ Ice and Water Protector

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
H315	Causes skin irritation
H350	May cause cancer
H351	Suspected of causing cancer

NFPA health hazard

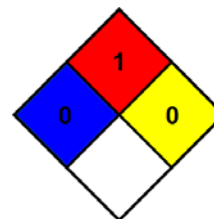
: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*