

SAFETY DATA SHEET

Creation Date 31-May-1999	Revision Date 18-Nov-2015	Version 2		
1. IDENTIFICATION				
Product Name	TruLo® Asphalt			
Synonyms	TruLo® Max (Type 1,2,3 & 4) TruLo® Lo Odor Asphalt (Type 1, 2, 3, 4 or Type I, II, III, IV), Built up ro BURA	ofing asphalt		
Product Code	OCRA00020			
Recommended Use	For use in built-up roof construction, construction of some modified bitur construction of bituminous water retarder systems, for adhering fleece b roof membranes, and for adhering insulation boards used in various typ	backed single ply		
UN/ID no.	UN3257			
Manufacturer Address	Owens Corning Roofing and Asphalt, LLC One Owens Corning Parkway Toledo, Ohio 43659			
Company Phone Number 24 Hour Emergency Phone Number Emergency Telephone	1-800-GET-PINK or 1-800-438-7465 Chemtrec 1-800-424-9300 1-419-248-5330 (after 5 pm ET and weekends)			
E-mail address Company Website	safetydatasheet@owenscorning.com http://owenscorning.com/			

2. HAZARDS IDENTIFICATION

OSHA	Regulatory	Status
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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B

Label elements

Danger

Hazard statements Causes skin irritation Causes serious eye irritation May cause cancer



Precautionary statements -	Obtain special instructions before use
Precautionary Statements - Prevention	Do not handle until all safety precautions have been read and understood
revenuon	Use personal protective equipment as required
	Wash face, hands and any exposed skin thoroughly after handling
Precautionary Statements - Response	If exposed or concerned: Get medical advice/attention
Eyes	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
Skin	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
Precautionary Statements - Storag	ge Store locked up
-	
-	salDispose of contents/container to an approved waste disposal plant
-	 •salDispose of contents/container to an approved waste disposal plant • Contact with product at elevated temperatures can result in thermal burns
Precautionary Statements - Dispo	 Contact with product at elevated temperatures can result in thermal burns Dangerous amounts of Hydrogen Sulfide, a highly toxic gas, may be present in the
Precautionary Statements - Dispo Hazards not otherwise classified	 Contact with product at elevated temperatures can result in thermal burns Dangerous amounts of Hydrogen Sulfide, a highly toxic gas, may be present in the headspace of heated containers.
Precautionary Statements - Dispo Hazards not otherwise classified	 Contact with product at elevated temperatures can result in thermal burns Dangerous amounts of Hydrogen Sulfide, a highly toxic gas, may be present in the headspace of heated containers. This petroleum based product may contain trace amounts of polycyclic aromatic
Precautionary Statements - Dispo Hazards not otherwise classified	 Contact with product at elevated temperatures can result in thermal burns Dangerous amounts of Hydrogen Sulfide, a highly toxic gas, may be present in the headspace of heated containers.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture OSHA Hazard Classification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components

Chemical Name	CAS No.	Weight-%	Trade Secret	
Asphalt, oxidized (roofing)	64742-93-4	87-100	*	
Re-Refined Engine Oil Bottoms	129893-17-0	0-13	*	
*The exact percentage (concentration) of composition has been withheld as a trade secret				

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Comments

The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

4. FIRST AID MEASURES

Description of First Aid Measures

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
If eye irritation persists: Get medical advice/attention

Skin contact	• HOT MATERIAL:
	 Immediately drench or immerse area in water to assist in cooling. Apply iced water or ice packs to burned area.
	• DO NOT use iced water or ice packs if the burned area covers more than 10% of the body
	as this may contribute to shock.
	• DO NOT try to remove product from burned area after it has cooled.
	 Seek immediate medical attention/advice Medical personnel can soften and remove cooled product with petroleum jelly or mineral
	oil.
	• COLD MATERIAL:
	 Clean exposed skin with mild soap and water.
	 If skin irritation persists, call a physician
Inhalation	• If respiratory symptoms develop, move victim to fresh air away from source of exposure
	and into fresh air.
	 If symptoms persist, call a physician
	If breathing is difficult, give oxygen
	 If breathing has stopped, give artificial respiration. Get medical attention immediately
Ingestion	DO NOT induce vomiting
	Drink 1 or 2 glasses of water
	• If vomiting occurs naturally have the person lean forward to reduce the risk of aspiration.
	Get medical attention
Most important symptoms and	Irritation nose and thoat
effects, both acute and delayed	 Irritation of eyes and mucous membranes
	Skin irritation
	Unconsciousness Corneal damage
	Vonea damage Vonea damage Vonea damage
	Decrease in motor functions
	Behavioral changes
	• Edema
	Conjunctivitis Defatting of skin
	• Rash,
Note to physicians	Treat symptomatically.
	5. FIRE-FIGHTING MEASURES
Suitable extinguishing media	Treat as fuel oil or hydrocarbon fire.
	Use extinguishing measures that are appropriate to local circumstances and the
	surrounding environment • Dry chemical
	• Foam
	Carbon dioxide (CO2)
	 Use water spray or fog; do not use straight streams
	 Use water to cool fire-exposed containers and to protect personnel.
Unsuitable extinguishing media	 Do not use a solid water stream as it may scatter and spread fire
Specific hazards arising from the	Hot product may ignite flammable materials on contact.
chemical	
Hazardous combustion products	Carbon monoxide
-	Carbon dioxide (CO2)
	Oxides of sulfur
	Hydrogen sulfide

	As in any fire was salf contained breathing apparetus (pecific pressure) MCUA/NICCU		
Protective equipment and precautions for firefighters	 As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear 		
	6. ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective	equipment and emergency procedures		
Personal precautions	Avoid contact with eyes and skinEvacuate personnel to safe areas		
Environmental precautions	 Prevent further leakage or spillage if safe to do so Avoid runoff into storm sewers, ditches and waterways. See Section 12 for additional ecological information 		
lethods and material for contain	ment and cleaning up		
Methods for containment	 Contain spill with an inert absorbent material such as soil, sand or oil dry. Prevent from spreading by covering, diking or other means. 		
Methods for cleaning up	 Use personal protective equipment as required Take up mechanically, placing in appropriate containers for disposal Clean contaminated surface thoroughly Dam up 		
	Cover liquid spill with sand, earth or other non-combustible absorbent material		
	7. HANDLING AND STORAGE		
Precautions for safe handling	 Handle in accordance with good industrial hygiene and safety practice Hydrogen sulfide, an extremely flammable, colorless, highly toxic gas is emitted from heated asphalt and may accumulate in storage tanks or bulk transport containers. Avoid contact with skin, eyes or clothing Avoid breathing fumes from hot material 		
Conditions for safe storage, inclu	ding any incompatibilities		
Conditions for safe storage, inclu Storage Conditions	 ding any incompatibilities Keep in a dry, cool and well-ventilated place Assure proper ventilation of storage or shipping containers to prevent accumulations of hazardous concentrations of off-gassed hydrocarbon gas or H2S 		
_	 Keep in a dry, cool and well-ventilated place Assure proper ventilation of storage or shipping containers to prevent accumulations of 		
Storage Conditions	 Keep in a dry, cool and well-ventilated place Assure proper ventilation of storage or shipping containers to prevent accumulations of hazardous concentrations of off-gassed hydrocarbon gas or H2S Strong oxidizing agents 		
Incompatible materials	 Keep in a dry, cool and well-ventilated place Assure proper ventilation of storage or shipping containers to prevent accumulations of hazardous concentrations of off-gassed hydrocarbon gas or H2S Strong oxidizing agents Water Heating - Correct application temperature is Equivicous Temperature (EVT) which is the temperature that the asphalt in the mop bucket or mechanical spreader must be at to achieve asphalt consistency or viscosity necessary to ensure that the correct amount of asphalt is applied to the roof. Minimize temperature to which product is heated in the kettle to obtain EVT during application in order to maintain quality of installed material and reduc hazard from fumes, hydrogen sulfide, kettle cooking and kettle flashes. Maximum kettle 		

Control parameters

Exposure Guidelines

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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Hydrogen sulfide 7783-06-4	STEL: 5 ppm TWA: 1 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 14 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 21 mg/m ³ Ceiling: 20 ppm	IDLH: 100 ppm Ceiling: 10 ppm 10 min Ceiling: 15 mg/m³ 10 min
Asphalt Fume	TWA: 0.5 mg/m ³ benzene soluble	-	Ceiling: 5 mg/m ³ fume 15 min
8052-42-4 IIOSH REL Recommended Exp	aerosol fume, inhalable fraction osure Limit Immediately Danger	ous to Life or Health	
ther Information	Vacated limits revoked by (11th Cir., 1992).	the Court of Appeals decision in	AFL-CIO v. OSHA, 965 F.2d 9
Engineering Controls	 Exposures During the App 2003-112 (June 2003). Th 1. Use fume suppressing a systems when feasible, 2. Use kettles of appropria 3. Make sure lids fit tightly number of times that the lii 4. Chop the kegs into easy 5. Place the kettle downwi 6. Place the kettle away fragment 7. Restrict access to the a 8. Calibrate kettle thermoni 9. Adhere to EVTs at point 	asphalt (TruLo® Max) or kettles w te size for the job, , close the lid when asphalt is no d must be opened, y-to-handle pieces before openin nd from workers, and with lid fac om air intake vents, doors and w	DHHS (NIOSH) Publication No. with afterburner or kettle loadin t being added and minimize the g lid to reduce time it is open, ing away from building, indows, nonthly, and I kettles and piping to minimize
dividual protection measures	, such as personal protective	equipment	
Eye/face protection	 Wear safety glasses with Wear face shield if splast 		
Skin and body protection	recommended when work	heat insulated, leather, lined neo ing with hot product). and long pants (cotton or other th	-
Respiratory protection	appropriate certified respir program, local regulations • If irritation occurs, wear a cartridges. • Supplied air respirators o	concentrations above the exposi ators in accordance with their co or 29 CFR 1910.134. an air purifying respirator with par or self-contained breathing appar n sulfide exceeds the occupation	mpany's respiratory protection rticulate and organic vapor atus should be used when
General Hygiene Considera	 tions • Avoid contact with skin, e Wash exposed areas tho Wash hands and arms fr Shower after exposure. Wash work clothes when 	roughly after handling this produ equently.	ct.
	9. PHYSICAL AND CH	EMICAL PROPERTIES	
hvsical state	Solid - in cartons		

Physical state	Solid - in cartons Liquid - in bulk and heated
Odor	Petroleum
Color	brown, Black
Boiling point / boiling range Flash point	>= 538 °C / 1000 °F > 302 °C / > 575 °F Cleveland Open Cup

Vapor pressure @20 °C (kPa)	3 mm Hg @ 20°C
Water solubility Autoignition temperature	Insoluble in water >=343 °C / >=649 °F
	10. STABILITY AND REACTIVITY
Reactivity	• No data available
Chemical stability	Stable under normal conditions
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to avoid	 Heat, flames and sparks Keep from possible contact with water when product is in liquid state.
Incompatible materials	Strong oxidizing agentsWater
Hazardous Decomposition Product	 s · Carbon dioxide (CO2) · Carbon monoxide · Combustion products may include sulfur oxides and hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Harmful by inhalation
 Harmful by skin contact
 Harmful if swallowed

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt, oxidized (roofing) 64742-93-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Hydrogen sulfide 7783-06-4	-	-	= 0.99 mg/L (Rat)1 h
Asphalt Fume 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

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

Immediate Health Effects	irritation, and including drov severe irritati and gastroint Aspiration of	Inhalation of vapors, fumes and/or mist may cause nose, throat, and mucous membrane irritation, and nausea, headaches or dizziness, and central nervous system depression, including drowsiness, loss of coordination, and unconsciousness. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. See Section 8 for exposure controls.			
Delayed Health Effects	Prolonged co burns. Long t	Prolonged or repeated skin contact may result in dryness and irritation of the skin. Prolonged contact with clothing saturated in petroleum distillates can cause second degree burns. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration.			
Sensitization	No informatio	No information available.			
Germ cell mutagenic	ity No informatio	No information available.			
Carcinogenicity	The table bel	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA	

Asphalt, oxidized (roofing) 64742-93-4	A4	Group 2A	-	х
A4 - Not Classifiable as a IARC (International Age Group 2A - Probably Car	ency for Research on Cance cinogenic to Humans	50 ,	f Labor)	
Carcinogen	occupational being probab there was 'lin bitumens and evidence' of roofing, and ' bitumens.' La effects literate carcinogen. • This petrole compounds (2011, the International Age exposures to oxidized bitu ly carcinogenic to humans nited evidence' in humans d bitumen emissions during carcinogenicity for oxidized sufficient evidence' of carc incet Oncology, Vol 12, De ure, NIOSH concluded tha num based product contain PACs) including polynucle use cancer and respiratory	men (asphalt) and their en (Group 2 A). 'The Working for the carcinogenicity of o proofing. In experimental a l bitumens (Class 2), which inogenicity for fume conde cember 2011. Based on a t roofing asphalt fumes are s a variable amount of poly ar aromatic hydrocarbons	nissions during roofing as g Group concluded that occupational exposures to animals there was 'limited n are mainly used in ensates of these oxidized 2000 review of health a potential occupational ycyclic aromatic (PAHs) which have been
Reproductive toxicity STOT - single expose STOT - repeated expo Aspiration hazard	ure No information	on available. on available.		

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Asphalt, oxidized (roofing) 64742-93-4	56: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-
Hydrogen sulfide 7783-06-4	-	0.0448: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.016: 96 h Pimephales promelas mg/L LC50 flow-through	0.022: 96 h Gammarus pseudolimnaeus mg/L LC50

Persistence and degradability

No information available

Bioaccumulation

No information available

Chemical Name	Partition coefficient
Hydrogen sulfide 7783-06-4	0.45
Asphalt Fume 8052-42-4	6

Other adverse effects

• No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes

• Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging

Do not reuse container

US EPA Waste Number U018 U050 U135

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Polycyclic Aromatic	-	Included in waste stream:	-	-

Hydrocarbons 130498-29-2		K022		
Hydrogen sulfide 7783-06-4	U135	-	-	U135

14. TRANSPORT INFORMA	١T	ON	
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Note:

Non-bulk containers of solid material are not regulated.
Material heated at or above 100°C/212°F is regulated.

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions Description Emergency Response Guide Number	UN3257 Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point 9 III IB1, T3, TP3, TP29 UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point (<tnd>), 9, III 128</tnd>
TDG UN/ID no. Proper shipping name Hazard Class Packing Group Description	UN3257 Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point 9 III UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
MEX UN/ID no. Proper shipping name Hazard Class Packing Group Description	UN3257 Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point 9 III UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III
ICAO (air)	Forbidden Not regulated
ΙΑΤΑ	Forbidden Not regulated
IMDG UN/ID no. Proper shipping name Hazard Class Packing Group EmS-No. Special Provisions Description	UN3257 Elevated temperature liquid, n.o.s.* 9 III F-A, S-P 232, 274 UN3257, Elevated temperature liquid, n.o.s.*, 9, III
RID UN/ID no. Proper shipping name Hazard Class Packing Group Classification code Description Labels	UN3257 Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point 9 III M9 UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III 9

ADR	UN3257
UN/ID no.	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
Proper shipping name	9
Hazard Class	III
Packing Group	M9
Classification code	(D)
Tunnel restriction code	274, 643
Special Provisions	UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its
Description	flash point, 9, III, (D)
Labels	9
ADN Proper shipping name Hazard Class Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ)	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point 9 III M9 274, 580, 643 UN3257, , Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III 9

15. REGULATORY INFORMATION

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Asphalt, oxidized (roofing) 64742-93-4	X	Х		Х		Х	Х	Х	Х	Х
Re-Refined Engine Oil Bottoms 129893-17-0	X	Х								

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US 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	SARA 313 - Threshold Values %
Re-Refined Engine Oil Bottoms - 129893-17-0	1.0

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide 7783-06-4	100 lb	-	-	Х

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen sulfide	100 lb	100 lb	RQ 100 lb final RQ
7783-06-4			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

WARNING! This product contains a chemical known in the State of California to cause cancer

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Asphalt, oxidized (roofing) 64742-93-4	Х	-	-
Re-Refined Engine Oil Bottoms 129893-17-0	Х	-	Х
Polycyclic Aromatic Hydrocarbons 130498-29-2	Х	-	Х
Hydrogen sulfide 7783-06-4	Х	X	Х
Asphalt Fume 8052-42-4	Х	X	Х

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Creation Date31-May-1999Revision Date18-Nov-2015Revision NoteThis Safety Data Sheet replaces the Material Safety Data Sheet numbered 24889.
Changes include new format to meet US OSHA HAZCOM 2012 requirements

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

End of Safety Data Sheet