

SAFETY DATA SHEET

LIQUISEAL^o

Revision Date: 11/30/2015

SECTION I - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME : LIQUISEAL
 PRODUCT GRADE/TYPE : A200, A201
 SDS NUMBER : J253-AE-G-018
 PRODUCT USE : Non-fibered asphaltic emulsion for waterproofing
 MANUFACTURER : National Coatings Corporation
 1201 Calle Suerte
 Camarillo, CA 93012
www.nationalcoatings.com
 PRODUCT INFORMATION : 1-800-423-9557
 CHEMTREC NORTH AMERICA : 1-800-424-9300
 CHEMTREC INTERNATIONAL : 703-527-3887

SECTION II - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Skin Corrosion/Irritation Category 2
 Eye Corrosion/Irritation Category 2

GHS LABEL:

Hazard Category	Signal Word	Hazard Statement	Pictogram
Skin Corrosion/Irritation Category 2	Danger	H315-Causes skin irritation	
Eye Corrosion/Irritation Category 2	Danger	H319-Causes serious eye irritation	

GHS Precaution Phrases:

Hazard Category	Prevention	Response	Storage	Disposal
Skin Corrosion/Irritation Category 2	P264 P280	P302+P352 P321 P332+P313 P362		
Eye Corrosion/Irritation Category 2	P264 P280	P305+P351+P338 P337+ P313		

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %	Hazard Class	GHS Hazard Statement	GHS Symbol # (Pictograms)	Pictogram

Asphaltic bitumen, not cut-back	8052-42-4	34-39	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
Bentonite	1302-78-9	2-6	None			
*Manganese II sulfate	7785-87-7	0.14-0.35	STOT RE2 Aquatic, Chronic 2	H373 H411	GHS08 GHS09	
*Hydrochloric Acid, 10%	7647-01-0	0.1-0.3	Skin Corrosion, Cat 1A Serious Eye Damage, Cat 1	H314 H318	GHS05 GHS05	
*Hydrogen Peroxide solution	7722-84-1	0.1-0.2	Acute Toxicity-Oral, Cat 4 Acute toxicity-Inhalation, Cat 4 Skin corrosion-Cat 1A Serious Eye Damage/Irritation, Cat 1 STOT SE, Cat 3 Oxidizing Liquids, Cat 1	H302 H332 H314 H318 H370	GHS07 GHS07 GHS05 GHS05 GHS08	

**These components have been classified hazardous as above. However, since their levels in the mixture are below the cut-off values per GHS guidelines, their respective hazards will not be in effect for the mixture and will therefore not be declared.*

GHS Pictograms	Hazard Statement
H315	<i>Causes skin irritation</i>
H319	<i>Causes serious eye irritation</i>

P Statements:

Preventive:

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

Response precautionary statements:

P302+P352: IF ON SKIN: Wash with plenty of water/... [As modified by IV ATP]

P321: Specific treatment (see ... on this label).

P362: Take off contaminated clothing. [As modified by IV ATP]

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing..

P332+P313: : If skin irritation occurs: Get medical advice/attention.

P337+P313: : If eye irritation persists get medical advice/attention.

Storage precautionary statements

P405: Store locked up.

P403+233: Store in a well ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of content/container...in accordance with local/regional/national/ international regulation (to be specified)

SECTION IV – FIRST AID MEASURES

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention.

Inhalation: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get medical attention immediately.

Ingestion : If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

SECTION V – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Use dry chemical, foam or carbon dioxide to extinguish fire.

Unusual Fire and Explosion Hazards: This material has been tested to ASTM D-4206 standard and found not to sustain combustion.

Special protective action for fire-fighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Keep people away from and upwind of spill/leak.
Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning up: Contain spills immediately with inert materials (e.g. sand, warth).
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION VII – HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

Conditions for safe storage : **Storage :** Keep containers tightly closed in a dry and cool place. ventilated place.

Storage Period: 12 months

Keep container closed when not in use. Protect from freezing.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH TLV	OSHA PEL	Other
Asphaltic bitumen, not cut-back	8052-42-4	0.5mg/m3	Not Available	
Bentonite	1302-78-9	Not Listed	Not Listed	Not Listed
*Manganese II sulfate	7785-87-7	Not available	Not available	Not available
*Hydrochloric Acid, 10%	7647-01-0	TWA-5 ppm STEL-1ppm	TWA-5 ppm STEL-1ppm	NIOSH-TWA-5 ppm STEL-1 ppm
*Hydrogen Peroxide solution	7722-84-1	TWA-1 ppm STEL-1ppm	TWA-1 ppm TWA-1.4 mg/m3	NIOSH-TWA-1 ppm TWA-1.4 mg/m3 IDLH-75 ppm

Engineering Controls : Mechanical local exhaust ventilation at point of containment release.

Protective Measures : Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

Eye/face Protection : Safety glasses with side-shields.

Skin Protection : Impervious (Neoprene gloves)

Respiratory Protection : Use only with ventilation to keep levels below exposure guidelines reported in this document. If not sure, and/or not able to monitor, use Stae or federally approved supplied air-respirator. Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous black liquid
 Odour: Slight odor
 Odour threshold: Not available
 pH: 8.96
 Melting point/freezing point: Not available
 Boiling Point/boiling range: Not available
 Flash Point: Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
 Evaporation Rate: Not available
 Flammability: Not available
 Upper/Lower Flammability or explosive limits: Not available
 Vapor Pressure: Not available
 Vapor density: Not available
 Relative density: 8.68 lb/gal
 Solubility: in water: Not available
 Partition Coefficient: n-octanol/water: Not available
 Auto-ignition temperature: Not available
 Decomposition temperature: Not available
 Viscosity: 120 ku

VOC Content g/l:

Not available

Note: The above data are typical values and must not be construed as a specification.

SECTION X – STABILITY AND REACTIVITY

Reactivity: Non-reactive
Chemical Stability: Stable
Possibility of hazardous reactions: None known.
Conditions/Materials to avoid: No known materials to avoid
Incompatible Materials: Strong oxidizing agents.
Hazardous decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, Oxides of nitrogen (NOx), other potentially toxic fumes, dense black smoke.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component	Acute Oral	Acute Dermal	Acute Inhalation
Asphaltic bitumen, not cut-back	LD50 rat >5001 mg/kg	LD50:>2001 mg/kg (Rat)	LC50/4h/rat (dust/mist):>6.82 mg/l, 4 h (Rat)
*Manganese II sulfate	LD50 rat- 500mg/kg		LT EXP- 5mg/m3/8hrs.
*Hydrochloric Acid, 10%	LD50, Rabbit-900 mg/kg	LC50, Mouse-1108 ppm/1h; Rat-3124 ppm/1hr	
*Hydrogen Peroxide solution	LD50>225 mg/kg bw (rat)- 50% Solution LD50>1193 mg/kg bw (rat)- 35% Solution LD50>1026 mg/kg bw (rat)- 70% Solution	LD50>2000 mg/kg bw (rabbit)-35% Solution LD50>9200 mg/kg bw (rabbit)-70% Solution	LC50>170 mg/m3 (rat)/4 hr- 50% Solution Hydrogen peroxide vapors:LC50 9400mg/m3 9mouse) (5-15 minutes Hydrogen peroxide vapors:LC50 2160mg/m3 9mouse)

Component	Skin Corrosion/Irritation	Serious Eye Damage/Irritation	Respiratory or Skin sensitization	Carcinogenicity	Others
Asphaltic bitumen, not cut-back	Heated asphalt can cause burns to the skin	Irritation due to fumes	H2S can evolve when this product is stored or handles at elevated temperatures; H2S can cause respiratory irritation	No-for asphalt emulsions	
*Manganese II sulfate	Not available	Not available	Not available	Not available	Not available
*Hydrochloric Acid, 10%	Through skin absorption	Very Corrosive	Dryness, reddening, blistering	No	STOT-RE-liver, respiratory/gastro tract, eyes and skin; Mutagenicity-

*Hydrogen Peroxide solution	Corrosive-causes severe burns	Serious eye damage	No	Animal carcinogen with unknown relevance to humans (A3); not mutagenic	No STOT SE-may cause respiratory irritation
-----------------------------	-------------------------------	--------------------	----	--	--

SECTION XII - ECOLOGICAL INFORMATION

Chemical	Duration	Species	Value	Units
Asphaltic bitumen, not cut-back				
*Manganese II sulfate	Not available			
*Hydrochloric Acid, 10%	96 LC50	Fish	282	3g/L
*Hydrogen Peroxide solution	96 hr LC50	Fish Pimephales promelas	16.4	mg/L
	72 hr LC50	Fish Leuciscus idus	35	
	48 hr LC50	Daphnia pulex	2.4	
	24 hr LC50	Daphnia Magna	7.7	
	72 hr LC50	Algae Skeletonema costatum	1.38	
	21 dNOEC	Daphnia magna	0.63	

Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil:

Asphalt is estimated to have a slow rate of biodegradation. This product is not expected to bioaccumulate through food chains in the environment. Analysis for ecological effects have not been conducted on asphalt (no cut-back). Spills into water ways maybe harmful to organisms and bottom feeders.

Not available for other components and mixtures in the products listed

SECTION XIII - DISPOSAL INFORMATION

Environmental Precautions:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal Method:

Waste disposal should be in accordance with existing federal, state and local environmental laws.

Empty Container Precautions:

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION XIV - TRANSPORT INFORMATION

Proper shipping Name : Not Regulated.
 UN Number : Not applicable
 Transport Hazard Class : Not Regulated
 Packing Group : Not applicable
 Land Transport (DOT) : Not Regulated
 Sea Transport (IMDG) : .Not Regulated

Air Transport (ICAO/IATA) : Not Regulated
Special Precautions : No data available

SECTION XV – REGULATORY INFORMATION

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Reporting Requirements: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: NONE

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire : Yes Reactivity: No

Proposition 65 : This product contains a chemical known to cause cancer or reproductive toxicity:

Component	CAS #
Asphalt (no cut-back)	8052-42-4

Other information: All of the components of this product are listed or exempt from listing of the Chemical Inventories of the following countries: Australia (AICS), Japan (MITI and ENCS), Korea (ECL), Philippines (PICCS) an Swiss Giftliste List of Toxic Substances.

SECTION XVI – OTHER INFORMATION

HMIS Rating:

Legend:

Acronym	Meaning
ACGIH	American Conference of Governmental Hygienists
OSHA	Occupational Safety Health Administration
SARA	Superfund Amendment Reauthorization Act
TRI	Toxic Release Inventory
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

Version #: GHS-018

Revision Date: 11/30/15

Supersedes Last Revision: 9/26/11

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally harmonized System of Classification and Labeling of Chemicals.

