



Material Safety Data Sheet



DDBSA - N

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SECTION 1 PRODUCT & COMPANY IDENTIFICATION

In case of Emergency call CHEMTREC 1-800-424-9300

Supplier	Expo Chemical Co., Inc. 6807 Theall Road, Suite A Houston, Texas 77066 281-895-9200 or 877-258-EXPO (3976) www.expochem.com
Product Name	DDBSA - N
Date Prepared	12/2008

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	CAS #
Dodecylbenzene Sulfonic Acid (DDBSA)	80-95	27176-87-0
Dodecyl Benzene	1-3	123-01-3
Sulfuric Acid	5-10	7664-93-9
Water	0-2	7732-18-5

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA standard may be listed. Where proprietary ingredients show, the identity may be made available as provided in this standard.

SECTION 3 HAZARDS IDENTIFICATION (POTENTIAL HEALTH EFFECTS)

EMERGENCY OVERVIEW

DANGER! CORROSIVE MAY CAUSE SEVERE IRRITATION OR BURNS TO THE EYES, SKIN, GASTROINTESTINAL TRACT, AND RESPIRATORY SYSTEM. HARMFUL IF SWALLOWED.

Eye	May be severely irritating to the eyes and may cause eye burns.
Skin	May be severely irritating to the skin and may cause burns. Harmful if absorbed through the skin.
Ingestion	Might result in moderately severe burns to the mouth and esophagus, and more severe burns and damage to the stomach.
Inhalation	Inhalation or contact with vapors, substance, or decomposition products may cause severe injury or death.

SECTION 4 FIRST AID MEASURES

Eye	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Get immediate medical attention.
Skin	Immediately remove all contaminated clothing. Flush with large amounts of water for 15 minutes. If irritation persists, obtain medical attention. Wash contaminated clothing before reuse.
Ingestion	Do NOT induce vomiting. Get immediate medical attention.
Inhalation	Remove source of contamination and move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, administer oxygen. Immediately obtain medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point	>201°F PMCC (>93.9°C)
General Instructions	Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including MSHA/NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Extinguishing Media	Water fog, Foam, Dry chemical powder, CO ₂
Hazardous Decomposition	May yield Sulfur Dioxide and Oxides of Sulfur; Sulfuric Acid

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill	<p>Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can safely do so. Wear appropriate personal protective equipment during cleanup.</p> <p>Small spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large spills: Dike ahead of liquid spill for later disposal.</p>
Environmental	Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

Handling	Do not get in eyes, on skin, or on clothing. Do not inhale vapors or mists. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Use good industrial hygiene practices.
Storage	Store in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

COMPONENT	CAS No.	REGULATION	TYPE	VALUE	FORM
Sulfuric Acid	7664-93-9	ACGIH	TWA	0.2 mg/m ³	Thoracic fraction
		OSHA	PEL	1 mg/m ³	
			TWA	1 mg/m ³	

Respiratory Protection	MSHA/NIOSH-approved respiratory protection for acidic vapors should be worn if vapors are present, irritation is experienced, or ventilation is insufficient.
Ventilation	General ventilation. In enclosed or confined spaces, local exhaust is recommended.
Skin Protection	Impervious gloves; suitable protective clothing.
Eye Protection	Chemical goggles; face shield if splashing is possible.
General	Eye wash station and emergency showers adjacent to work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Evaporation Rate	Estimated slower than ethyl ether.
Flash Point	> 201°F PMCC (>93.9°C)
pH	>2
Specific Gravity	1.15 - 1.18
Vapor Density	Estimated heavier than air.

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Incompatibility	Strong oxidizing agents, alkalies.
Hazardous Decomposition Products	May yield Sulfur Dioxide and Oxides of Sulfur; Sulfuric Acid.
Hazardous Polymerization	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

COMPONENT	CAS No.	STANDARD	FINDING
Sulfuric Acid	7664-93-6	IARC: Evidence of carcinogenicity in humans	Sufficient data
		IARC: Overall evaluation	1 Human carcinogen
		ACGIH: A2 Carcinogen	Suspected human carcinogen
		NTP: Known Carcinogen	Known carcinogen

SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL

Waste Disposal	Disposal should be in accordance with applicable Federal, State, and local regulations. Chemical additions, processing or otherwise altering this material may make the information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.
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SECTION 14 TRANSPORT INFORMATION

DOT ID Number	UN 3265
DOT Proper Shipping Name	Corrosive Liquid Acidic, Organic, N.O.S. (Sulfonic Acid)
DOT Class	8
Packing Group	PG III
Reportable Quantity	12,267 Lbs. [based on Sulfuric Acid, CAS No. 7664-93-9]

SECTION 15 REGULATORY INFORMATION

UNITED STATES	CERCLA 102(a)	Hazardous Substances Reportable Quantity	Component	CAS No.	
			Sulfuric Acid	7664-93-9	
			1,000 lbs		
				Sulfuric Acid	7664-93-9
				1,000 lbs	
				Sulfuric Acid	7664-93-9
				1,000 lbs	
				Sulfuric Acid	7664-93-9
				1%	
				Sulfuric Acid	7664-93-9
				1,000 lbs	

SECTION 15 REGULATORY INFORMATION, CONTINUED

UNITED STATES, CONTINUED	SARA 302	Extremely Hazardous Substance	No	
	SARA 311	Hazardous Chemical	No	
	TSCA	Listed		
	California	Prop 65 CRT Listed 3/14/03	Sulfuric Acid Carcinogenic	CAS No. 7664-93-9
	New Jersey	RTK Reportable Threshold	Sulfuric Acid 500 lbs	CAS No. 7664-93-9
	New Jersey	RTK Listed Substance	Sulfuric Acid Substance No. 1761	CAS No. 7664-93-9
	Pennsylvania	RTK Hazardous Substance	Sulfuric Acid Listed	CAS No. 7664-93-9
INTERNATIONAL	Australia	AICS	Listed	
	Canada	DSL	Listed	
	Canada	NDSL	Not listed	
	China	IECSC	Listed	
	Europe	EINECS	Listed	
	Europe	ELINCS	Not listed	
	Japan	ENCS	Listed	
	Korea	ECL	Listed	
	New Zealand		Not listed	
	Philippines	PICCS	Listed	
	Puerto Rico	TSCA	Listed	

SECTION 16 OTHER INFORMATION

STANDARD	HEALTH	FLAMMABILITY	REACTIVITY	PPE
HMIS	3	1	0	X
NFPA	3	1	0	

LEGEND:

0	Insignificant
1	Slight
2	Moderate
3	High
4	Extreme

SECTION 16 OTHER INFORMATION, CONTINEUD

LEGEND:

ACGIH = American Conference of Governmental Industrial Hygienists
ADR = Agreement on Dangerous Goods by Road (Europe)
AICS = Australian Inventory of Chemical Substances (Australia)
ANSI = American National Standards Institute
ASTM = American Society for Testing and Materials
CAS = Chemical Abstract Services
CEPA = Canadian Environmental Protection Act
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act
CFR = Code of Federal Regulations
CHIP = Chemicals Hazard Information and Packaging Approved Supply List
CPR = Controlled Products Regulations
DOT = Department of Transportation
DSCL = Dangerous Substances Classification and Labeling (Europe)
DSD/DPD = Dangerous Substances Directives/Dangerous Preparations Directives (Europe)
DSL = Domestic Substance List (Canada)
ECL = Existing Chemical List (Korea)
EEC/EU = European Economic Community/European Union
EINECS = European Inventory of New and Existing Chemical Substances (Europe)
ELINCS = European List of Notified Chemical Substances (Europe)
ENCS = Inventory of Existing and New Chemical Substances (Japan)
EPA = Environmental Protection Agency
EPCRA = Emergency Planning and Community Right to Know Act
HCS = Hazardous Communication System
HMIS = Hazardous Material Information System
IARC = International Agency for Research on Cancer
IRIS = Integrated Risk Information System
LD = Lethal Dose
LD50/LC50 = Lethal Dose/Lethal Concentration kill 50%
LDLo/LCLo = Lowest Published Lethal Dose/Lethal Concentration
NAERG'96 = North American Emergency Response Guide Book (1996)
NDSL = Non-Domestic Substances List (Canada)
NFPA = National Fire Prevention Association
NIOSH = National Institute of Occupational Health and Safety
NPRI = National Pollutant Release Inventory
NSNR = New Substances Notification Regulations (Canada)
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit
PICCS = Philippine Inventory of Chemicals and Chemical Substances (Philippines)
RCRA = Resource Conservation and Recovery Act
RQ = Reportable Quantity
RTECS = Registry of Toxic Effects of Chemical Substances
SARA = Superfund Amendments and Reauthorization Act
SD = Single Dose
STEL = Short Term Exposure Limit (15 minutes)
TDG = Transportation Dangerous Goods (Canada)
TDLo/TCLo = Lowest Published Toxic Dose/Toxic Concentration
TLm = Median Tolerance Limit
TLV = Threshold Limit Value
TLV-TWA = Threshold Limit Value-Time Weighted Average

SECTION 16 OTHER INFORMATION, CONTINUED

LEGEND, CONTINUED

TPQ = Threshold Planning Quantity

TSCA = Toxic Substance Control Act

WHMIS = Workplace Hazardous Material Information Act

ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS AND DATA WHICH THIS COMPANY BELIEVES TO BE CURRENTLY RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANTY OF ANY KIND IS MADE WITH RESPECT THERETO. THIS INFORMATION IS NOT INTENDED AS A LICENSE TO OPERATE UNDER OR A RECOMMENDATION TO PRACTICE OR INFRINGE ANY PATENT OF THE COMPANY OR OTHERS COVERING ANY PROCESS, COMPOSITION OF MATTER OR USE. SINCE EXPO CHEMICAL CO., INC. SHALL HAVE NO CONTROL OF THE USE OF THE PRODUCT DESCRIBED HEREIN, EXPO CHEMICAL CO., INC. ASSUMES NO LIABILITY FOR LOSS OR DAMAGE INCURRED FROM THE PROPER OR IMPROPER USE OF SUCH PRODUCT.