

GHS SAFETY DATA SHEET

	I. PRODUCT IDENTIFICATION	ON		
MANUFACTURE/SUPPLIER Exide Technologies	(as used on la	TRADE NAME bel)	Expander (for use in lead acid batteries)	
13000 Deerfield Parkway, E Milton, GA 30004	PRODUCT II	D	N/A	
OR FURTHER INFORMATION Primary Contact:	CHEMICAL	CHEMICAL FAMILY/ CLASSIFICATION		
Exide SDS Support (7 Secondary Contact: Joe Bolea (423) 989-6 Fred Ganster (610) 92	FOR EMERG 377 CHE 1-4052 (703 24-h	FOR EMERGENCY CHEMTREC (800) 424-9300 (703) 527-3887 – Collect 24-hour Emergency Response Contact Ask for Environmental Coordinator		
	Signal Word: Warning			
Category	GHS Codes		Description	
Health: Carc. 2 STOT SE 3 STOT RE 1 Eye Irrit 2 Aquatic Chronic 4	H351 H335 H372 H319 P308+P313 P304+340 P305/P351/P338 P337/P313 P312 H413	inhalati May ca Causes through through Causes If expo advice/ IF INH and kee for brea IF IN E for sevu lenses, Continu If eye i advice/ Call a H you fee May ca	EYES: rinse cautiously with water eral minutes. Remove contact if present and easy to do. ue rinsing rritation persists: Get medical fattention POISON CENTER or physician if el unwell use long lasting harmful effects to	
	P405	Store in	n locked area 1 locked area 1 a well-ventilated place. Keep 1 er tightly closed	

III. C	OMPOSITIC	N/INFORMAT	TION ON INGR	EDIENTS		
Ingredient	CAS Nur	nber %	by Wt.			
Carbon black Nonhazardous ingredients (proprietary)	1333-8 N/A		5-21 9-94			
NOTE: $N/A = not$ applicable						
	IV.	FIRST AID M	EASURES			
Take proper precautions to ensure you ow	vn health and	l safety before a	ttempting to res	scue a victim an	d provide first	aid.
Inhalation: Remove from exposure.	Rinse nose an	d mouth with w	ater. Get medica	l attention if disc	comfort continue	es
Skin Contact: Wash thoroughly with so	ap and water					
Eye Contact: Remove from contaminat possible. Flush with copi						insing eyes, if
Ingestion: Immediately rinse mouth.	. Drink plenty	y of water. Do n	ot induce vomitin	ng. Get medical	attention.	
	V. FII	RE FIGHTING	MEASURES			
Flash Point: Not applicable						
Flammable Limits: Not applicable	-h 1	ton for D				£
Extinguishing media: CO ₂ ; foam; dry c Fire Fighting Procedures:	chemical or wa	ter fog. Do not u	se water jet as an	extinguisher as th	is will spread the	e fire.
Use full body fire fighting clothing Use water spray to cool containers	g and full face	piece positive p	essure, self-cont	ained breathing a	apparatus.	
Hazardous Combustion Products:						
These products may contain residua						
reaches 230°F, bags should be sepa						
combustibles. Carbon monoxide ar	nd carbon dio	xide are emitted.	It may not be ol	ovious that carbo	on black is burning	ng unless it is
stirred and sparks are apparent.						
	VI. ACCID	ENTAL RELE	ASE MEASUR	ES		
Wear protective clothing as described in this feasible, and placed into suitable containers of cleaning. Do not discharge onto ground of	for later dispo	sal. Avoid gene				
		ANDLING AN	D STORAGE			
Handling: Use with adequate ventilation. Minimiz eyes, skin, and clothing. Avoid ingestio Storage: Store in a cool, dry, well-ventilated area	on and inhalati	on. Keep in clo	sed containers.	C		
VIII. EXP	POSURE CO	NTROLS AND	PERSONAL PI	ROTECTION		
			upational Expo			
0	US OSHA	US ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Carbon black	3.5	3	3.5	3.5	3.5	3.5(a)
Nonhazardous ingredients (proprietary)	N/A	N/A	N/A	N/A	N/A	N/A
NOTES: (a) Based on OELs of Belgium, Denm N/A – not applicable	ark, France, &	ż UK				
Engineering Controls (Ventilation):						
Ventilation, as described in the <u>Industr</u> Hygienists, should be provided in areas						
specified by OSHA or other federal, sta			F	F		
Hygiene Practices: Wash hands thoroughly before eating,	drinking or sn	noking after han	dling.			
Respiratory Protection (NIOSH/MSHA ap Wear NIOSH/MSHA approved respira		manufacturers'	ecommendation	s where the PEL	of 3.5 mg/m ³ is	exceeded.
Skin Protection: Gloves should be worn when handling	the product	Nitrile or DVC al	OVAS STA FACOMMO	nded		

Gloves should be worn when handling the product. Nitrile or PVC gloves are recommended.

Eye Protection:

Safety goggles should be worn when using this product to prevent particles of dust from getting into the eyes

Other Protection:

Coveralls or other full body clothing shall be worn during product use and properly laundered after use. Other safety equipment should be worn as appropriate for the industrial environment. Personal clothing and shoes should be protected from contamination with this product.

IX. PHYSICAL DATA - ELECTROLYTE Boiling Point@760 mm Hg 226 to 237°F 1.2185 to 1.3028 Specific Gravity @ $77^{\circ}F(H_2O=1)$ >3000°C 13.5 to 17.8 Melting Point Vapor Pressure (mm Hg) % Solubility in Water 100 Not applicable pН Not Applicable **Evaporation Rate** Less than 1 Vapor Density (AIR=1) (Butyl acetate=1) Viscosity Not applicable Appearance and Odor Amorphous, black solid, % Volatiles by Volume @70°F Not Applicable Theshold odorless. Octanol Water Partition Not Applicable Coefficient (Kow) Note: The properties above reflect 30-40% Sulfuric acid X. STABILITY & REACTIVITY DATA Stability: Stable Χ Unstable ____ **Conditions to Avoid:** Excessive heat or open flame for prolonged periods of time Incompatibilities: (materials to avoid) Avoid contact with strong oxidizers, such as chlorates, bromates, and nitrates, inorganic nitrates, and strong acids **Hazardous Decomposition Products:** Combustion will produce carbon monoxide (CO), carbon dioxide (CO2), and sulfurous gases (SO_x). Hazardous Polymerization: Will not occur XI. TOXICOLOGICAL DATA **Routes of Entry:** Carbon black is harmful by inhalation, skin contact, and eye contact. Acute Toxicity: Inhalation LD₅₀: No data Oral LD₅₀: rat: >8000 mg/kg Inhalation: Dust may cause upper respiratory tract irritation **Ingestion:** Dust is not likely to produce an adverse effect through ingestion. **Skin Contact:** Dust may cause irritation after prolonged and repeated contact. **Eye Contact:**

Dust may cause irritation and conjunctivitis

Synergistic Products: None known

Additional Information:

Effects of Overexposure - Acute: Carbon black may cause respiratory, skin, and eye irritation. Effects of Overexposure - Chronic: Carbon black is listed by the IARC as a Group 2B substance (possibly carcinogenic to humans).

Carcinogenicity:

The International Agency for Research on Cancer (IARC) has categorized carbon black as a 2B classification (possible human carcinogen) based upon sufficient animal evidence and inadequate human evidence. Carbon black has not been listed as a

carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety & Health Administration (NIOSH) criteria document on carbon black recommends that only carbon blacks with PAH levels greater than 0.1% be considered suspect carcinogens.

XII. ECOLOGICAL INFORMATION

XIII. DISPOSAL INFORMATION

Environmental Fate: The product is insoluble in water. **Environmental Toxicity:**

Aquatic Toxicity: 96-hr LC₅₀, fish (unspecified): >1000 mg/L

US

Treat as a controlled waste. Dispose of industrial wastes in accordance with local, state, and federal regulations.

XIV. TRANSPORT INFORMATION

GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Not regulated as a hazardous material

AIRCRAFT – ICAO- IATA:

Not regulated as a hazardous material

VESSEL – IMO-IMDG:

Not regulated as a hazardous material

ADDITIONAL INFORMATION:

- Transport may require packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped.

XV. REGULATORY INFORMATION

United States:

CERCLA (Superfund) and EPCRA: Carbon black is not a CERCLA hazardous substance. Spills of carbon black are not reportable under CERCLA.

TSCA: Carbon black is listed in the TSCA Inventory as a Chemical in Commerce, however, it is exempt from reporting under the Inventory Update Rule (40 CFR 710(b)). Each ingredient chemical listed in Section III of this SDS is also listed on the TSCA Registry.

RCRA: Unused carbon black is not a hazardous waste if disposal is required.

SARA Title III: Carbon black is not a listed "extremely hazardous substance" (Section 304) or a listed "toxic chemical" (Section 313).

NFPA:

Flammability:	=	1
Health:	=	0
Reactivity:	=	0

State/ Country/Organization	Identification	Notifications/Warning		
• 0		0		
California	California Proposition 65	"Warning" This product contains chemicals		
		known to the State of California to cause		
		cancer."		
Canada	All chemical substances in this product are	This product has been classified in		
	listed on the CEPA DSL/NDSL or are	accordance with the hazard criteria of the		
	exempt from list requirements.	Controlled Products Regulations and the		
		SDS contains all the information required		
		by the Controlled Products Regulations.		
		Refer to the Controlled Products Regulation		
		for product labeling requirements.		
EU	European Inventory of Existing	All ingredients remaining in the finished		
	Commercial Chemical Substances	product as distributed into commerce are		
	(EINECS):	exempt from, or included on, the European		
		Inventory of Existing Commercial		
		Chemical Substances.		
XVI. OTHER INFORMATION				
DATE ISSUED: September 11, 2013				
OTHER INFORMATION:	Distribution into Quebec to follow Canadian Controlled			
	Product Regulations (CPR) 24(1) and 24(2).			

	Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.	
SOURCES OF INFORMATION:	International Agency for Research on Cancer (1987), IARC	
	Monographs on the Evaluation of Carcinogenic Risks to	
	Humans: Overall Evaluations of Carcinogenicity: An updating	
	of IARC Monographs Volumes 1-42, Supplement 7, Lyon,	
	France.	
	Ontario Ministry of Labor Regulation 654/86. Regulations	
	Respecting Exposure to Chemical or Biological Agents.	
PREPARED BY:	ENVIRONMENTAL, SAFETY AND HEALTH DEPARTMENT	
	EXIDE TECHNOLOGIES	
	13000 DEERFIELD PKWY., BLDG. 200	
	MILTON, GA 30004	
VENDEE AND THIRD PERSONS ASSUM	/ E THE RISK OF INJURY PROXIMATELY CAUSED BY THE MATERIAL IF	
	ARE NOT FOLLOWED AS PROVIDED FOR IN THE DATA SHEET, AND VENDOR	
	O VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF	
THE MATERIAL EVEN IF REASONABL	E PROCEDURES ARE FOLLOWED.	
	ALL PERSONS WORKING IN AN AREA WHERE THIS PRODUCT IS USED, AND ALL	
	SHOULD BE FAMILIAR WITH THE CONTENTS OF THIS DATA SHEET. THIS	
	ELY COMMUNICATED TO EMPLOYEES AND OTHERS WHO MIGHT COME IN	
CONTACT WITH THE PRODUCT.		
WHILE THE INFORMATION ACCUMUL	ATED AND SET FORTH HEREIN IS BELIEVED TO BE ACCURATE AS OF THE	
	S MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL	
	N. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE	
INFORMATION IS CURRENT, APPLICA	BLE, AND SUITABLE FOR THEIR PARTICULAR CIRCUMSTANCES.	

ANY PHOTOCOPY MUST BE OF THIS ENTIRE DOCUMENT