1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Calibrase Abrasive Products (CS-8, CS-10F, CS-10, CS-17, CS-19, CS-10P, and CS-10W)

PRODUCT USE: Analytical abradents used for determination of wear resistance.

CHEMICAL FAMILY: Refractory Oxide, Polyurethane

CHEMICAL NAME AND SYNONYMS: Fused Aluminum Oxide, Alumina; Corundum; Polyurethane

MANUFACTURER: Taber Industries, 455 Bryant Street, North Tonawanda, NY 14120

EMERGENCY TELEPHONE NUMBER: 716-694-4000

2. CHEMICAL COMPOSITION/ EXPOSURE LIMITS

		Typical %	EXPOSURE LIMITS (TWA in mg/m^3)		
Component	**CAS No.**	**by Weight**	**Form**	**ACGIH TLV**	**OSHA PEL**
Aluminum Oxide	1344-28-1	Proprietary	Total Dust	10	15
			Respirable		5
Polyurethane		Proprietary			

3. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid; formed abrasive material; various colors
BOILING POINT: Not Determined
FREEZE-MELT POINT: Not Determined
VAPOR PRESSURE (mm): Not Applicable
VAPOR DENSITY (air = 1): Not Applicable
SOLUBILITY IN WATER: None
pH: Not Applicable
ODOR: None
ODOR THRESHOLD: Not Determined

4. HAZARDS INFORMATION

INHALATION: A release of nuisance dust may result from the use of this product. Exposure to excessive concentrations may result in respiratory irritation. Use with adequate ventilation or with OSHA approved breathing protection. No adverse chronic effects are expected when used as recommended.

SKIN CONTACT: Excessive contact with skin may result in inflammation or abrasion. No adverse chronic effects are expected when used as recommended.

EYE CONTACT: Excessive contact with eyes may result in inflammation or abrasion. No adverse chronic effects are expected when used as recommended.

INGESTION: No known adverse effects.

NFPA/HMIS CODES: Health: 1 - Slight Flammability: 0 - None Reactivity: 0 - None

ROUTE OF ENTRY: Inhalation

5. EXPOSURE CONTROL MEASURES

RESPIRATORY PROTECTION: Not required but advised per OSHA Standard 1910.134. If the exposure limit is exceeded, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest.

VENTILATION: In accordance with OSHA 29CFR1910.94 or OSHA 29CFR1910.1000.

EYE PROTECTION: Safety glasses with side shields or safety goggles. See OSHA 29CFR1910.94 & 1000

HEARING PROTECTION: as required by OSHA CFR 1910.95.

WORK/HYGIENE PRACTICES: Good personal hygiene should always be followed.

PROTECTIVE GLOVES: N/A

OTHER PROTECTIVE CLOTHING: None

6. FIRST AID MEASURES

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Call poison control center, hospital emergency room, or physician immediately.

SKIN CONTACT: If irritation develops flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

7. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None documented.

7. REACTIVITY DATA CONTINUED

INCOMPATIBILITY MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition and combustion products may be toxic.

HAZARDOUS POLYMERIZATION: Will not occur.

8. FIRE AND EXPLOSION HAZARD

FLASH POINT (method used): N/A

FLAMMABILITY LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Water fog, AFFF, dry chemical, or CO_2

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus to avoid inhalation of smoke or vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

9. TOXICOLOGICAL INFORMATION

CARCINOGEN LISTING: NTP: No IARC: No OSHA: No

INVESTIGATED AS: Tumorigen

CHRONIC EFFECTS: None Identified

TARGET ORGANS: None Identified

No LD_{50}/LC_{50} information found relating to normal routes of occupational exposure.

10. TRANSPORTATION INFORMATION

Not regulated as a hazardous material by the U.S.DOT 49CFR172.101 hazardous materials table. This product is “Not Regulated” under the Transportation of Dangerous Goods Act.

11. REGULATORY INFORMATION

CHEMICAL INVENTORY STATUS - PART 1

TSCA: Yes
EC: Yes
ENCS (Japan): Yes
AICS (Australia): Yes

CHEMICAL INVENTORY STATUS - PART 2

ECL (Korea): Yes
DSL (Canada): Yes
NDSL (Canada): No
PICCS (Phil.): Yes

FEDERAL, STATE, & INTERNATIONAL REGULATIONS - PART 1

SARA 302:
RQ: No TPQ: No

SARA 313:
LIST: Yes CHEMICAL CAT: No

FEDERAL, STATE, & INTERNATIONAL REGULATIONS - PART 2

CERCLA: No

RCRA 261.33: No

TSCA 8(b): No

CHEMICAL WEAPONS CONVENTION: No

POISON SCHEDULE**:** None allocated.

AUSTRALIAN HAZCHEM CODE**:** None allocated.

TSCA 12(b) – EXPORT NOTIFICATION: No

CDTA: No

SARA 311/312:
ACUTE: Yes CHRONIC: No

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

12. DISPOSAL INFORMATION

Disposal of waste material should be in accordance with federal, state, provincial, and local laws.

13. OTHER INFORMATION

LEGEND:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
DOT	Department of Transportation
DSL	Canadian Domestic Substances List
EC	European Core Inventory
ECL	Korean Existing Chemicals List
ENCS	Japanese Existing and New Chemical Substances List
EPA	Environmental Protection Agency
IARC	International Agency for Research on Cancer
LC_{50}	Lethal Concentration (50 percent kill)
LD_{50}	Lethal Dose (50 percent kill)
LEL	Lower Explosion Limit
MSDS	Material Safety Data Sheet
NDSL	Canadian Non Domestic Substances List
NFPA	National Fire Protection Agency
NIOSH	National Institute for Occupational Safety and Health
NTP	National toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
RCRA	Resource and Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UEL	Upper Explosion Limit