TURI SURACE CLEANING LABORATORY

CLEANING CHEMICAL QUESTIONNAIRE

See letter for submission instructions.



Material Safety Data Sheet (MSDS) MUST Be Attached (and Technical Data Sheet, if available)

HD-34 Clean	8.01100 Cal A CA	Generic	Chemical Family:	ou want listed in th	e Director
Meets Specified Standard(s): ASTM:		Mil Spec:	FDA:	Other:	all the same
Primary Cleaner Classificati	on (Check only one):				
□ Acidic Aqueous	Semi-Aque	ous 🗆 Powde	er detergent	Extracting	
□ Neutral Aqueous	□ Terpene	□ Enzyr		HCFC	
□ Alkaline Aqueous	□ Petroleum d	listillate Micro	bial	Alcohol	
□ Caustic	- Organio - Diastii		ng Other:		
2. Chemical Constituents (C	heck all that apply &	specify) Example	Builder: Sodium Hy	droxide 50% (as C	oncentrate
cremiter containing.	At Least Some wa	ter (50 %)	OR No/	Minimal Water	- Indiana
□ Builder: □ Surfactant:	□ Water cor		□ Supercritical fluid:		
Emulsifier:	Chelating	agent:			
Saponifier:	prohibitor		o B	lasting medium:	
Rinse aid/Silicate:	Estec - Anti-micr	obial:		ther:	
 Industrial Applications (N Aerospace/Military 	umber all that apply,	Most Used = 1)			
□ Cleanrooms	Metal Fini			Semicondoctors	
□ Basic Electronics	□ Metal Fabi			General Cleaning (f	loors, etc.)
□ Medical	Optics	□ Precis	ion Instruments	Maint./Repair (engi	nes, etc.)
The state of the s	O Painting	□ Printin	g 🗆	Other:	
Buffing/polishing compounds	Coatings Cutting/tapping	pecify, if possible) Greases Inks Lubricating/ lapping oils	Example Coating Mold releases/ Silicones Paints Resins/Rosins	gs Conformal Rust/Scale Waxes Other:	
Alloys (Specify):	Carbon steel Geramics	Glass/quartz Gold Plastic (Specify):	□ Rubber Stainless steel Steel Sterling/silver	Nickel Tin Other:	
Equipment Compatibility (Check all that apply &	specify if applicable	a)	00000	
□ Cold Solvent	□ Mechan	ical Agitation	Low Pressure S	provi	
□ Vapor Degreasing	□ Ultrasonics		☐ High Pressure Spray		_ psi-range
Manual Wipe	□ Media Blasting		Other:		_psi-range
☑ Immersion/Soak		itical Extract	ouler.		
Recommended Concentrate Recommended Temperatu	ions: 5(7-10)		ime (range)		
Important Physical and Ch Maximum theoretical	emical Properties: VOC content:)			
GWP: ODP:	Surface ' Kb value	Tension: 27 dy	The state of the s	ensity: 1.04	
Cost per pound/gallon: S		NAME OF TAXABLE	Large-volume price	Other:	TIO.
). Additional pertinent inform	TO DO STORE OF THE PARTY OF THE	abore en al 1 o	Large-volume price		USS
per amone autori	on not round eisev	viiere on this form o	MSDS:		

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NFPA HAZARD CODE
HEALTH-1 FIRE-0 REACTIVITY-0

MATERIAL SAFETY DATA SHEET

TRADE NAME: SAVOGRAN HD-34 Cleaner/Degreaser

CHEMICAL NAME: Mixture C.A.S. No.: Not Applicable Class: Cleaning Compound

DOT SHIPPING NAME AND LABELING: Cleaning Compound - Not Regulated

EFFECTIVE DATE: October, 1997

SECTION 2 HAZARDOUS INGREDIENTS

Dimethyl Adipate 627-93-0 <25 None established None established None established

SECTION 3

Initial Boiling Point: 212°F

Vapor Pressure: <0.1mmHga20°C(dimethyl ester)

Vapor Density: Heavier than air Solubility in water: Dispersible

Melting Point: N/A

VOC: 0 (excluding exempt dimethyl esters)

PHYSICAL DATA

Specific Gravity: @ 60/60°F: 1.04 Percent Volatile by Volume: 79

Evaporation Rate: Less than ether

Appearance: Clear liquid

pH(1% d-H20): 5

SECTION 4

FIRE AND EXPLOSION DATA

FLASH POINT: None FLAMMABLE LIMITS: None

EXTINGUISHING MEDIA: Water fog, regular foam, carbon dioxide or dry chemical

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide

SPECIAL FIREFIGHTING PROCEDURES: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear

full protective equipment. Cool tank/container with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5

HEALTH HAZARD DATA

EFFECTS OF EXPOSURE - Routes of Entry - Acute (immediate)

Eyes: This material is an eye irritant. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness and blurred vision.

<u>Skin</u>: This material may cause mild skin irritation. Prolonged or repeated contact may cause redness, cracking and blistering of skin and blurred vision. <u>Inhalation</u>: If mists or vapors are generated at high concentrations, may cause pallor, nausea, anesthetic or narcotic effects, blurred vision and irritation of the upper respiratory passages.

Swallowing: Ingestion of large amounts may cause gastric disturbances.

EFFECTS OF EXPOSURE - Chronic (delayed)

Eyes: When used as intended, no chronic effects expected.
Skin: When used as intended, no chronic effects expected.
Inhalation: When used as intended, no chronic effects expected.

MSDS SAVOGRAN HD-34 Cleaner/Degreaser

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

FIRST AID:

Skin contact: Wash thoroughly with soap and water after excessive contact. Thoroughly launder contaminated clothing before reuse.

Eye contact: Flood with plenty of water with eye lids held open for at least 15 minutes and get medical attention promptly.

Inhalation: If illness occurs, remove patient to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, start artificial respiration. Call physician immediately.

Swallowing: Do Not induce vomiting. Call Physician, or transport to Medical facility at ONCE. Never give anything by mouth to an unconscious person. Immediately give two glasses of water if conscious.

SECTION 6

REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (materials to avoid): Strong oxidizing agents (e.g., Nitric acid, permanganates, etc.) strong alkalies (e.g., NaOH, ammonia, etc.), strong acids (e.g., HCl, Sulfuric etc.)

CONDITIONS TO AVOID: See "SECTION 4 - UNUSUAL FIRE AND EXPLOSION HAZARDS."

SECTION 7

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Review "SECTION 4 - UNUSUAL FIRE AND EXPLOSION HAZARDS."

SMALL SPILLS: Wipe or scrape up any material. Wash area thoroughly with detergent and water; ventilate adequately with good fresh air movement at floor level.

LARGE SPILLS: Wear proper protective equipment. Stop spill at source, dike area of spill to keep from spreading and keep out of ground water and streams. Transfer material to metal containers. Absorb remainder with sand, clay, earth, floor absorbent or other material and shovel into containers. Then wash area thoroughly with water and detergent. Ventilate adequately with good fresh air movement at floor level. DO NOT restart pilot lights or operate electrical devices or other sources of sparks, flames or heat until all vapors (odors) are gone.

DISPOSAL OF WASTE: Dispose of in accordance with local, state, and federal regulations.

This product is not considered a hazardous waste under current RCRA regulations.

SECTION 8

SPECIAL PROTECTION INFORMATION

VENTILATION: Use local exhaust to control vapors.

RESPIRATORY PROTECTION: Approved organic vapor respirator, if vapors or mists are generated.

GLOVES: For repeated or prolonged exposure, neoprene gloves are recommended.

EYE PROTECTION: Chemical goggles or safety glasses with side shield. Eye-wash stations with safety showers should be readily available.

OTHER PROTECTIVE EQUIPMENT: No special protective clothing needed; however, wear long sleeved shirts with long pants to protect skin against splashes and spills.

SECTION 9

SPECIAL PRECAUTIONS

HANDLING AND STORING: Store in cool place, out of hot sun and below 100°F. All containers are subject to damage in storage and transit. Damaged containers may start leaking immediately or at a later time. DO NOT store in areas with widely fluctuating temperatures and DO NOT store where vapors may come in contact with flames, sparks, or heat.

EMPTIED CONTAINERS may retain product residues (e.g., vapor and liquid or solids); therefore, all precautions given in this sheet must be observed until a container is thoroughly cleaned or destroyed.