

SAFETY DATA SHEET

SECTION I – Product Information

PRODUCT IDENTITY: **METAL SHIELD #1267 -**
DISTRIBUTOR: HY-TECH THERMAL SOLUTIONS, LLC , WATSON COATINGS
ADDRESS: 159 Park Hill Blvd.
CITY, STATE AND ZIP CODE: West Melbourne, FL 32904
INFORMATION TELEPHONE #: 321-984-9777
For Emergency Assistance involving chemicals call CHEMTREC (800) 424-9300

SECTION II – Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENT	CAS. NO.	OSHA PEL OR ACGIH TLV	WEIGHT %
Aliphatic Hydrocarbon	64742-88-7	100 PPM	27.5%
Black Tinting Paste		100 PPM	2.6%

SECTION III – Composition

Products contain no mercury or lead. These products may contain titanium dioxide, bentonite clays or other pigments which are hazardous only as dust when product is sanded. These products contain ingredients considered to be trade secrets by Hy-Tech Thermal Solutions, LLC. This SDS does, however, disclose all necessary information needed to handle and use the product safely.

SECTION IV – First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.
FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
GET IMMEDIATE MEDICAL ATTENTION.
FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting, keep at rest and get prompt medical attention.

SECTION V – Fire and Explosion Hazard Data

FLASH POINT: 105°F
(SETAFLASH CLOSED CUP)
AUTOIGNITION TEMPERATURE: Over 800°F
EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG
LOWER EXPLOSIVE LIMIT: 0.8 %
UPPER EXPLOSIVE LIMIT: 6.0 %
UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.
Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioned, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION VI – Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Floor may be slippery; use care to avoid falling. Dike and contain material with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning run-offs out of municipal sewers and open bodies of water.
WASTE DISPOSAL METHOD: The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should then be sealed and properly labeled with waste designation and landfill or incinerated according to current local, state and federal regulations.

SECTION VII – Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Maximum storage temperature 100 degrees Fahrenheit. Keep closure tight and container upright to prevent leakage.

Precautionary Labeling: "Keep from Freezing".

KEEP AWAY FROM HEAT, SPARKS AND FLAME

OTHER PRECAUTIONS: Do not get in eyes. Avoid skin contact. Prevent prolonged or repeated breathing of vapor or spray mists. Do not handle until the manufacturer's safety precautions and label instructions have been read and understood. Avoid breathing sanding dust.

SECTION VIII – Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

RESPIRATORY PROTECTION: Provide sufficient ventilation to keep vapor concentrations below the given TLV and LEL levels. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister is recommended where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Gloves are required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Store contaminated clothing in well ventilated cabinets or closed containers, and wash thoroughly before reuse. Safety shower and eyebath should be in areas of use.

HYGIENIC PRACTICES: Wash hands before eating. Avoid contact with eyes, skin, and clothing.

SECTION IX – Physical/Chemical Properties

Boiling Range:	300-415F	Specific Gravity (H2O=1) WG/GAL	0.8306
Vapor Pressure (mm Hg) @ 100 C	0.3	Odor Threshold	HIGH
Vapor Density (AIR=1)		Evaporation Rate	Slower
Heavier	X	(Butyl Acetate=1)	
Lighter		Appearance and Odor	Viscous Black liquid; slight odor
Viscosity:	90-120 K.U.		

SECTION X – Reactivity Data

CONDITIONS TO AVOID: Do not expose to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death.

INCOMPATIBILITY: Do not expose materials to strong oxidizing agents, concentrated nitric acid, halogens or molten sulphur.

HAZARDOUS DECOMPOSITION PRODUCTS: When burned, material will emit carbon monoxide, carbon dioxide and hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION XI – Health Hazard Data, Toxicity Data

***** EMERGENCY OVERVIEW *****
***** HARMFUL IF INHALED. *****
***** HARMFUL IF SWALLOWED. *****

Vapors irritating to eyes and respiratory tract. Vapor reduces oxygen available for breathing. Combustible liquid and vapor.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Prolonged inhalation may be harmful. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

SECTION XII – Ecological Information

ECOLOGICAL INFORMATION: Do not flush into sewers or waterways. Any spills must be cleaned up and disposed of according to local, state and federal regulations

SECTION XIII – Disposal Consideration

DISPOSAL METHOD: Consult an expert on disposal of recovered materials, and ensure conformity to local, state and federal regulations.

SECTION XIV – Transportation Information

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID

DOT TECHNICAL NAME: COMBUSTIBLE LIQUID

DOT HAZARD CLASS: COMBUSTIBLE LIQUID HAZARD SUBCLASS: 3

DOT UN/NA NUMBER: UN1263 PACKING GROUP: III RESP. GUIDE PAGE:

SECTION XV – Regulatory Information

THE COMPOSITION OF THIS PRODUCT IS AS FOLLOWS :(* = HAZADOUS, SECTION 2)

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
CALCIUM SULFONATE	71486-79-8	28.9 %
HY-TECH CERAMICS	1302-98-8	18.9 %
*ALIPHATIC HYDROCARBON	64742-88-7	18.6 %
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	14.0 %
OIL MODIFIED ALKYD	86729-25-1	8.1 %
MICROTALC - MONTANA TALC	14807-96-6	6.4 %
*ALIPHATIC HYDROCARBON	8052-41-3	3.6 %
BENTONITE CLAY	68953-58-2	0.5 %
CARBON	7440-44-0	0.3 %
ZIRCONIUM ALKANOATE SALT	22464-99-9	0.2 %
METAL ALKYL ARYL SULFONATES	61789-86-4	0.1 %
METHYL ETHYL KETOXIME	96-29-7	0.1 %
TRIPROPYLENE GLYCOL MONOMETHYL ETHER	25498-49-1	0.1 %
HEXYLENE GLYCOL	107-41-5	0.1 %
COBALT	7440-48-4	<u>0.1%</u>
		100.0 %

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and

Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
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No SARA Section 313 components exist in this product.

U.S. STATE REGULATIONS: AS FOLLOWS –

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
CALCIUM SULFONATE	71486-79-8
OIL MODIFIED ALKYD	86729-25-1

PENNSYLVANIA RIGHT-TO-KNOW: The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
CALCIUM SULFONATE	71486-79-8
OIL MODIFIED ALKYD	86729-25-1

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
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No Proposition 65 chemicals exist in this product.

INTERNATIONAL REGULATIONS: AS FOLLOWS –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information

SECTION XVI – Other Information

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 02/28/12

VOLATILE ORGANIC COMPOUNDS (VOCS): 2.33 lbs/gal, 279 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

All information, recommendations and suggestions concerning this product are based upon tests and data believed to be reliable, Hy-Tech Industries makes no guarantee, expressed or implied, as to the effect of use, or the safety and toxicity of the product. The information contained in this sheet is not to be construed as absolutely complete.

REFERENCES:

- 1) U.S. Code of Federal Regulations (CFR) U.S. Dept. of Labor, No. 29, Parts 1900 to 1910.1200. OSHA Communications Standard 29 CFR 1910.1200.
- 2) Fire Protection Guide to Hazardous Materials, 10ed., National Fire Protection Association, Quincy, MA, 1991.
- 3) Title III List of Lists, U.S. Environmental Protection Agency publication EPA 560/4-90-011, January 1990.