

Consumer Electronics

SAFETY DATA SHEET

1. Identification		
Product identifier	HumiSeal 1C63	
Other means of identification		
Product code	HumiSeal 1C63	
Recommended use	Protective Coating for Printe	ed Circuit Board
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name Address	CHASE CORPORATION Zeta Drive Plant 201 Zeta Drive Pittsburgh, PA 15238 United States	
Telephone	1-866-932-0800	
E-mail	Not available.	
Emergency phone number	1-800-424-9300 (+1)703-527-3887	Chemtrec, US Chemtrec, outside of US
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet the criteria for classification.	
Precautionary statement		
Prevention	Observe good industrial hy	giene practices.
Response	Wash hands after handling.	
Storage	Store away from incompatil	ble materials.
Disposal	Dispose of waste and resid	ues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Vinyltris(methylethylketoxime)silane		2224-33-1	5 - < 10

Chemical name	Common name and synonyms	CAS number	%
2-Hydroxy-2-methylpropiopher	none	7473-98-5	1 - < 3
Other components below repo	rtable levels		90 - 100
Designates that a specific chemi	cal identity and/or percentage of composition has be	een withheld as a trade se	ecret.
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms d	evelop or persist.	
Skin contact	Wash off with soap and water. Get medical atten	tion if irritation develops a	and persists.
Eye contact	Rinse with water. Get medical attention if irritatio	n develops and persists.	
ngestion	Rinse mouth. Get medical attention if symptoms	occur.	
Most important symptoms/effects, acute and lelayed	Direct contact with eyes may cause temporary in	ritation.	
ndication of immediate nedical attention and special reatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of the protect themselves.	material(s) involved, and t	take precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).	
Insuitable extinguishing nedia	Do not use water jet as an extinguisher, as this w	vill spread the fire.	
Specific hazards arising from he chemical	During fire, gases hazardous to health may be fo	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be wo	orn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so v	vithout risk.	
Specific methods	Use standard firefighting procedures and conside	er the hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For persona	I protection, see section 8	3 of the SDS.
lethods and materials for	This product is miscible in water.		
ontainment and cleaning up	Large Spills: Stop the flow of material, if this is w possible. Cover with plastic sheet to prevent spre and place into containers. Following product reco	eading. Absorb in vermicu	llite, dry sand or ea
	Small Spills: Wipe up with absorbent material (e. remove residual contamination.	g. cloth, fleece). Clean su	irface thoroughly to
	Never return spills to original containers for re-us	e. For waste disposal, se	e section 13 of the

**Environmental precautions** 

# 7. Handling and storage

Precautions for safe handlingObserve good industrial hygiene practices.Conditions for safe storage,<br/>including any incompatibilitiesStore in original tightly closed container. Store away from incompatible materials (see Section 10<br/>of the SDS).

Avoid discharge into drains, water courses or onto the ground.

### 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Translucent
Odor	Sulphurous.
Odor threshold	Not available.
рН	Does not apply.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 392.0 °F (> 200.0 °C)
Evaporation rate	< 1 BuAc
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.0003 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2000 - 5000 cP
Viscosity temperature	77 °F (25 °C)
Other information	
Brookfield viscosity	2000 - 5000 cP
Density	1.04 g/cm3
Flammability class	Combustible IIIB estimated
Miscible (water)	Negligible

Specific gravity	1.04
VOC (Weight %)	< 50 g/l

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1001-1050)
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	Not available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.

Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
14. Transport information	
DOT	
Not regulated as dangerous go	oods.
ΙΑΤΑ	
Not regulated as dangerous ge	oods.
IMDG	
Not regulated as dangerous g	oods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.
15. Regulatory information	1
US federal regulations	All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency releas	se notification
Not regulated. OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1050)
Not listed.	
-	authorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

#### Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Reactivity Hazard - No

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

#### Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

### US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	12-16-2014
Revision date	05-22-2015
Version #	02
HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
Disclaimer	The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.
Revision Information	Product and Company Identification: Product and Company Identification