SAFETY DATA SHEET

1. Identification

Product identifier	**Zinc Kote**
Recommended use	Coatings
Recommended restrictions	Not available
Manufacturer/Importer/Supplier/Distributer information	
Manufacturer:	Zinc Kote LLC 300 Airborne Parkway- Suite 212 Cheektowaga, NY 14225
Company telephone	1-716-810-1550
Emergency telephone	1-800-567-7455 (Terrapure Environmental)
Supplier	Refer to Manufacturer

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity (oral)	Category 5
	Skin irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific organ toxicity-Single exposure	Category 3 (central nervous system, narcotic effects)
	Specific target organ toxicity - Repeated exposure	Category 2 (respiratory system, nervous system)

Label elements

Signal word	Danger
Hazard statement	Highly flammable liquid and vapour. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. Causes damage to organs (respiratory system, liver, central nervous system, and kidney). May cause drowsiness or dizziness (narcotic effects). Cause damage to organs through prolonged or repeated exposure (respiratory system, nervous system).
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction. Call a POISON CENTER or doctor/physician if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazards not otherwise classified	None known.
Supplemental information	None.

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS Number	% w/w
Zinc Powder		7440-66-6	90-98
Binder		68154-81-4	Proprietary
Acetone		67-64-1	0.5-1
Toluene		108-88-3	0.5-1

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.

Skin contact
Take off immediately all contaminated clothing. Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed
Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information
Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/ attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Alcohol foam, carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Do not allow run-off from firefighting to enter drains or water courses. May release vapours that form flammable mixtures at or above the flash point.

Special protective equipment and precautions for firefighters
Evacuate contaminated area. Fire fighters should have eye protection, chemical resistant protective gear and wear self-contained breathing apparatus. Use water spray to cool containers exposed to fire.

Firefighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Use water spray to cool fully closed containers.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Highly flammable liquid

Hazardous combustion products
May form toxic fumes, acrid smoke, hydrocarbons, carbon dioxide, and monoxide on burning.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

	Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS)

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone	TWA	1000 ppm 2400 mg/m^3
Toluene	TWA	100 ppm
	STEL	150 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
Acetone	TWA	500 ppm 1,188 mg/m^3
	STEL	750 ppm 1,782 mg/m^3
Toluene	TLV-TWA	20 ppm

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetone	TWA	250 ppm 590 mg/m^3
Toluene	TWA	100 ppm
	STEL	375 mg/m^3 150 ppm 560 mg/m^3

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. Provide eyewash station

Individual protection measures, such as personal protective equipment

Eye/face protection	Chemical respirator with organic vapour cartridge and full face piece.
Skin protection	
Hand protection	Wear appropriate chemical-resistant gloves.
Other	Wear appropriate chemical-resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapour cartridge and full face piece
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Keep away from food and drink. 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	Grey liquid
Physical state	Liquid
Form	Liquid
Color	grey
Odor	Mild typical
Odor Threshold	Not available
pH	Not Available (Non Aqueous solution)
Melting point/Freezing point	Not Applicable
Initial boiling point	Initial for component 56 to 57 °C (Acetone)
Flash point	-20 °C TCC for Acetone
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Lower explosive limit	2.6 for Acetone
Upper explosive limit	12.8 for Acetone
Vapour pressure	30.796 kPa (Acetone)
Vapour density	Not available
Specific gravity	Not available
Solubility(ies)	
Water solubility	Low to Insoluble
Partition coefficient (water/octanol)	Not available
Auto-ignition temperature	465 °C approximate
Decomposition temperature	Not available
Viscosity	Not available

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	Hazardous Polymerization: Will not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	Strong oxidizing agents, acids, alkalis, amines, ammonia, halogens, peroxides and reducing agents.
Hazardous decomposition products	Will form fumes, smoke and carbon dioxide, carbon monoxide and hydrocarbons on burning.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Skin contact	May be harmful if absorbed through skin. May cause skin irritation.
Eye contact	May cause eye irritation
Ingestion	May be harmful if swallowed.

Components	**Species**	**Test Results**
Toluene		
Acute		
Inhalation LC50	Rat	49 g/m^3, 4 hr
Oral LD50	Rat	636 mg/kg
Dermal LD50	Rabbit	1,400 uL/kg
Acetone		
Acute		
Inhalation LC50	Rat	16,000 ppm 4 hr
Oral LD50	Rat	5,800 mg/kg
Dermal LD50	Rabbit	>20,000 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. May cause an allergic skin reaction. May be harmful if absorbed through skin.
Serious eye damage/eye irritation	May cause eye irritation
Respiratory or skin sensitization	
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	May cause reproductive or developmental effects.
Carcinogenicity	Not classified as a carcinogen by IARC
Reproductive toxicity	May damage fertility or the unborn child
Specific organ toxicity	
Single exposure	Causes damage to organs (respiratory system, liver, central nervous system). May cause drowsiness or dizziness (narcotic effects)
Repeated exposure	Cause damage to organs through prolonged or repeated exposure (respiratory system, nervous system).
Aspiration toxicity	Not an aspiration hazard

12. Ecological information

Ecotoxicity

Components	Species	Test Results
Acetone		
Acute (aquatic) Fish LC50	Lepomis macrochirus	7,505 mg/l
Toluene		
Acute (aquatic) Fish LC50	Lepomis macrochirus	11-15 mg/l, 96 hrs.
Persistence and degradability	Not available	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
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 safemanner (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

UN Number	1263
Proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II

IATA

UN Number	1263
Proper shipping name	Paint

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	

IMDG

UN Number	1263
Proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Acetone (CAS 67-64-1) Listed Toluene (CAS 108-88-3) Listed
US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	Not listed

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

Issue date	December 31,2018
Revision	0