



SAFETY DATA SHEET

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Date Issued: 12/03/2013
Date revised:

TerraCair by Brenntag
UltraPure DEF

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: TerraCair by Brenntag,
UltraPure DEF

SUPPLIER: BRENNTAG NORTH AMERICA INC.
5083 POTTSVILLE PIKE
READING, PA
PHONE NUMBER: 1-866-363-5843

2 HAZARD IDENTIFICATION



WARNING: Causes skin irritation. Causes eye irritation. Harmful if swallowed.

Prevention:

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mists. Use proper personal protective equipment.

Response:

IF ON SKIN: Wash with plenty of water for at least 15 minutes. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention.

IF SWALLOWED: Call a doctor/physician if you feel unwell. Rinse mouth.

Storage:

Store in a cool dry place out of sunlight between 12 deg. F (11 deg C) and 86 deg F (30 deg C)

Disposal:

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Read and understand this complete Safety Data Sheet for this product before handling.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EXPOSURE LIMITS, PPM

COMPONENT	TWA	STEL	PEL	IDLH	CAS NO.
UREA	25	35	50	300	57-13-6
WATER	--- NONE ESTABLISHED ---				7732-18-5



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4 FIRST AID MEASURES

IF INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 30 MINUTES, LIFTING THE UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE RE-USE. GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING. IF CONSCIOUS GIVE 2 GLASSES OF WATER OR MILK. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

5 FIRE FIGHTING MEASURES

FLASH POINT, DEG F: N/A
METHOD USED: TCC

FLAMMABLE LIMITS IN AIR, % (VOL)
LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, FOAM, POWDER EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND NIOSH APPROVED RESPIRATOR.

UNUSUAL FIRE AND EXPLOSION HAZARDS: WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL THE FIRE IS OUT. MATERIAL IS NOT CONSIDERED FLAMMABLE BUT THE RESIDUE MAY BURN IN THE PRESENCE OF A STRONG IGNITION SOURCE AFTER THE WATER HAS BEEN EVAPORATED.

6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS OR LEAKS: WEAR PROTECTIVE CLOTHING. DIKE AND CONTAIN SPILL, WITH INERT ABSORBENT MATERIAL. REMOVE SPILLED MATERIAL TO CONTAINERS FOR RECOVERY/DISPOSAL. SOAK UP RESIDUE (SMALL SPILLS) ABSORB ON INERT MATERIAL AND PLACE IN CONTAINERS FOR DISPOSAL.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS ON SPILL REPORTING AND HANDLING AND DISPOSAL OF WASTE.

7 HANDLING & STORAGE

HANDLING AND STORAGE PRECAUTIONS: STORE IN A COOL DRY PLACE OUT OF SUNLIGHT BETWEEN 12 DEG. F(11 DEG C) AND 86 DEG F (30 DEG C)

OTHER PRECAUTIONS: CAUTION! CONTACT WITH EYES, SKIN AND MUCOUS MEMBRANES MAY CAUSE IRRITATION.
* AVOID CONTACT WITH EYES, SKIN AND CLOTHING * AVOID BREATHING MIST OR DUST
* USE WITH ADEQUATE VENTILATION

REPAIR AND MAINTENANCE PRECAUTIONS: DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR CONTAINERS.

OTHER PRECAUTIONS: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. CONTACT WITH ALUMINUM PARTS IN A PRESSURIZABLE FLUID SYSTEM MAY CAUSE VIOLENT REACTIONS. CONSULT EQUIPMENT SUPPLIER FOR FURTHER INFORMATION.



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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: ORDINARILY, NATURAL VENTILATION IS ADEQUATE. IF MISTING, MECHANICAL (GENERAL) VENTILATION IS GENERALLY ADEQUATE.

RESPIRATORY PROTECTION: NOT GENERALLY REQUIRED. IF MISTY CONDITION PREVAILS, WEAR NIOSH APPROVED MIST RESPIRATOR.

EYE PROTECTION: CHEMICAL GOGGLES WITH FULL FACE SHIELD. CONTACT LENSES SHOULD NOT BE WORN.

PROTECTIVE CLOTHING: NOT GENERALLY REQUIRED.

OTHER PROTECTIVE MEASURES: AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY, UNOBSTRUCTED AND READY FOR USE. PROTECTIVE EQUIPMENT SHOULD BE SELECTED, USED, AND MAINTAINED ACCORDING TO APPLICABLE STANDARDS.

9 CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT, DEG F: >223	VAPOR PRESSURE, MM HG/20 DEG C: WATER VAPOR
MELTING POINT, DEG F: N/A	VAPOR DENSITY (AIR=1): WATER VAPOR
SPECIFIC GRAVITY (WATER=1): 1.14	WATER SOLUBILITY, %: COMPLETE
APPEARANCE AND ODOR: CLEAR,	VAPORATION RATE (BUTYL ACETATE=1): WATER VAPOR
COLORLESS ELIQUID WITH AMMONIA ODOR	

10 STABILITY AND REACTIVITY

STABILITY: STABLE POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEATING ABOVE 266 °F

MATERIALS TO AVOID: SODIUM NITRITE, PHOSPHORUS PENTACHLORIDE, AND NITROSYLPERCHLORATE. MAY REACT WITH NITRATES, ALKALIES, OXIDIZING AGENTS, HYPOCHLORITE, ALDEHYDES, INORGANIC ACIDS, ALEFINS, AND POLYMERIZABLE ESTERS. CORROSIVE TO COPPER AND COPPER ALLOYS.

HAZARDOUS DECOMPOSITION PRODUCTS: ABOVE 266 °F DECOMPOSITION STARTS WITH FORMATION OF AMMONIA, CYANURIC ACID, CYANIC ACID, CARBON DIOXIDE, BIURET, AND NITROGEN OXIDES.

11 TOXICOLOGICAL INFORMATION

UREA:

ORAL: RAT LD50 = 14,300-15,000 MG/KG

DERMAL: NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

12 ECOLOGICAL INFORMATION

ECOLOGICAL TESTING HAS NOT BEEN CONDUCTED ON THIS PRODUCT BY BRENNTAG



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13 DISPOSAL INFORMATION

DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES, GASES, AND MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL AS ABOVE.

14 TRANSPORTATION INFORMATION

NOT REGULATED BY DOT

15 REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

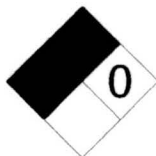
CAS #	CHEMICAL NAME	PERCENT BY WEIGHT
NONE		

"US TOXIC SUBSTANCE CONTROL ACT (TSCA) – ALL INGREDIENTS LISTED"

16 OTHER INFORMATION

HAZARD RATING (NFPA 704)

HEALTH: 1
FIRE: 0
REACTIVITY: 0
SPECIAL: NONE



HAZARD RATING SCALE:

0=MINIMAL 3=SERIOUS
1=SLIGHT 4=SEVERE
2=MODERATE



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*****END OF MSDS*****