

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

1-949-474-7707

PRODUCT NAME: All Clear, Mustard Knock-Out

1. PRODUCT AND COMPANY IDENTIFICATION

17872 Mitchell N. Irvine, CA 92614-6034

USA

Telephone: +19494747707 Telefax: +19494747024 Web: WWW.ALLCLEAR.COM 11/00/2010

SDS Number: SYNONYMS:

CHEMICAL FAMILY: None

DESCRIPTION / USE None established FORMULA: None established

000000012454

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification: Reproductive hazard

Routes of Entry: This product will not exert a significant adverse effect to health

from any route of exposure.

Chemical Interactions: No known interactions

Medical Conditions Aggravated: None known.

All Clear_® Mustard Knock-Out REVISION DATE: 11/14/2011

Page 1 of 11



Human Threshold Response Data

Odor Threshold Not established.

Irritation Threshold Not established.

Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings :	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special hazard.
HMIS	1*	0	0	<u>nazaru.</u>
NFPA	1	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to cause irritation. Not expected to be toxic by inhalation. Skin Toxicity: Contact would be expected to cause transient redness if not washed off

and left on the skin for an extended period of time. Not expected to be

toxic from dermal contact.

Eye Toxicity: Contact may cause mild irritation consisting of transient redness,

swelling, and mucous membrane discharge to the conjunctiva. Not

expected to cause irritation.

Ingestion Toxicity: Not expected to be toxic by ingestion. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any

reference source including IARC, OSHA, NTP or EPA.

Reproductive and This product has not been tested for reproductive or developmental Developmental Toxicity: effects. However, this product contains an ingredient which has been

shown to be a possible reproductive or developmental hazard based on

animal studies.

Inhalation: There are no known or reported effects from chronic exposure.

Skin Contact: There are no known or reported effects from chronic exposure.

Ingestion: There are no known or reported effects from chronic exposure.

Sensitization: Not expected to be a skin sensitizer.

Chronic Target Organ Toxicity: None known

Supplemental Health Hazard No additional health information available.

Information:



3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u> <u>CAS #</u> <u>% RANGE</u>

SODIUM BROMIDE (NABR) 7647-15-6

Sodium Borate 1303-96-4

4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

becomes difficult or if respiratory irritation develops.

Skin Contact: IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated

clothing. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical

attention if irritation develops.

Ingestion: IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if

symptoms develop. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or

mixture is not classified as pyrophoric., Not explosive

Flammable Properties

Fire / Explosion Hazards: Will not burn

Extinguishing Media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use

normal fire-fighting equipment and the personal protective

equipment recommended in Section 8 to include a NIOSH approved

self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

All Clear® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 3 of 11





Spill Mitigation Procedures

Air Release: not applicable

Water Release: If the product contaminates rivers and lakes or drains inform

respective authorities.

Land Release: Sweep up and shovel into suitable containers for disposal. Avoid

creating dust.

Additional Spill Information: Prevent further leakage or spillage if safe to do so. Use personal

protective equipment as required. Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Handling: Do not reuse this container.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry

and well ventilated place.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible., Wear a NIOSH approved N95 respirator.

Skin Protection: Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

Exposure Limit Data

<u>CHEMICAL NAME</u> <u>CAS # Name of Limit</u> <u>Exposure</u>

All Clear_® Mustard Knock-Out REVISION DATE: 11/14/2011



Sodium Borate 1303-96-4 ACGIH 2 mg/m3 TWA Inhalable

fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract., ACGIH 2005 Adoption, Refers to Appendix A -- Carcinogens.

Sodium Borate 1303-96-4 ACGIH 6 mg/m3 STEL Inhalable

fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract., ACGIH 2005 Adoption, Refers to Appendix A -- Carcinogens.

Sodium Borate 1303-96-4 ACGIH 2 mg/m3 TWA Inhalable

fraction

Sodium Borate 1303-96-4 ACGIH 6 mg/m3 STEL Inhalable

fraction

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Form No data.
Color: No data.
Odor: No data.

Molecular Weight: None established

Specific Gravity: 3.21 20 °C

pH: no data available

Boiling Point: 1,390 °C 2,534 °F

not applicable

Freezing Point:

not determined

Melting Point:

not determined

Density: no data available Bulk Density: no data available

All Clear® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 5 of 11





Vapor Pressure: 1.3 hPa 806 °C

Vapor Density: not applicable Viscosity: no data available

Solubility in Water: 950 g/l 25 °C

Partition coefficient n-

no data available

octanol/water:

Evaporation Rate: not applicable
Oxidizing: None established
Volatiles, % by vol.: no data available
VOC Content no data available

HAP Content No data

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Heat.

Chemical Incompatibility: Heavy metal salts, Bromine trifluoride, Strong oxidizing agents,

Strong acids

Hazardous Decomposition Products: Other hazardous decomposition products may be formed.

Decomposition Temperature: No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

SODIUM BROMIDE LD50 = 3,500 mg/kg Rat

(NABR)

Component Animal Toxicology

Dermal LD50 value:

SODIUM BROMIDE LD50 Believed to be > 2,000 mg/kg Rabbit

(NABR)

Component Animal Toxicology

Inhalation LC50 value: SODIUM BROMIDE

No data

(NABR)

All Clear® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 6 of 11





Product Animal Toxicity

<u>Oral LD50 value</u>: Believed to be > 2,000 mg/kg <u>Dermal LD50 value</u>: Believed to be > 2,000 mg/kg

Inhalation LC50 No data.

value:

Skin Irritation: Not expected to cause irritation. Eye Irritation: May cause mild eye irritation.

Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic

Toxicity:

There are no known or reported effects from chronic exposure.

Reproductive and A component of this product has been shown to cause reproductive or

Developmental Toxicity: developmental toxicity.

Mutagenicity: Not known or reported to be mutagenic.

Sodium Borate This material was non-mutagenic in the Ames test.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: **SODIUM BROMIDE (NABR)**

Fathead minnow (Pimephales - (nominal, static). 96 h LC50 = 16,479 mg/l

promelas),

Daphnia magna, - (nominal, static). 48 h LC50= 11,000 mg/l

Daphnia magna, - (nominal, static). 48 h EC50= 5,800 mg/l

Green algae (Scenedesmus - (nominal, static). 7 day toxicity threshold for mortality = 2,800

quadricauda), mo



13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it DOES NOT meet the criteria of a

hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.As a nonhazardous solid waste it should be disposed of in accordance with local, state

and federal regulations.

Potential US EPA Waste Codes: not applicable

14. TRANSPORT INFORMATION

Land (US DOT): Not Regulated NOT REGULATED AS A DOT HAZARDOUS MATERIAL

Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,

Emergency Response Guide Number: Not applicable

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals

(40 CFR 180):

Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Delayed (Chronic) Health Hazard

Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

All Clear® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 8 of 11



Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302 TPQ (threshold planning

None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA Reportable quantity None established ZUS_SAR302 Reportable quantity None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

1 omiograma				
CAS#	COMPONENT NAME			
1303-96-4	Sodium Borate			

ZUSPA RTK

Pennsylvania: Hazardous substance list

1989-08-11 BORAX

New Jersey:

CAS#	COMPONENT NAME
1303-96-4	Sodium Borate

ZUSNJ_RTK

All Clear® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 9 of 11



New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

SODIUM BORATE BORAX BORATES, TETRA, SODIUM SALTS BORAX

(B4Na2O7.10H2O)

Massachusetts:

CAS#	COMPONENT NAME
1303-96-4	Sodium Borate

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

SODIUM BORATE BORAX

California Proposition 65:

CAS # COMPONENT NAME	
----------------------	--

ZUSCA_P65 None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS) 2007-08-24

Threshold limits: 1 Weight percent

1566

Sodium tetraborate decahydrate

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 0.1 Weight percent

341

Sodium bromide

16. OTHER INFORMATION

SDS REVISION STATUS:

SECTIONS REVISED: 4

Major References : Available upon request.

All Clear_® Mustard Knock-Out

REVISION DATE: 11/14/2011 Page 10 of 11





THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. AQUA TRI $_{\textcircled{\tiny B}}$ BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT AQUA TRI $_{\textcircled{\tiny B}}$ SDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.