

Neutralizer

MSDS Number: A150G

Revision Date: 3/5/15

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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Product Name: Neutralizer
Revision Date: 3/5/15
MSDS Number: A150G
Product Code: A150
Product Use: Battery and Terminal Cleaner and Protector

2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, eye, skin, ingestion
Target Organs: NA
Inhalation: Prolonged inhalation may be harmful.
Skin Contact: Prolonged contact may cause temporary irritation.
Eye Contact: May cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.

PERSONAL PROTECTION INDEX													
A		G		B		H		C		I			
D		J		E		K		F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions		
A		n		O		p		q		r		S	
t		U		w		y		Z		Additional Information			

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GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:
Physical, Flammable Aerosols, 1

GHS Phrases:
H222 - Extremely flammable aerosol

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P211 - Do not spray on an open flame or other ignition source.

P251 - Pressurized container: Do not pierce or burn, even after use.

P264 - Wash hands thoroughly after handling.

P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of waste and residues in accordance with local authority requirements.

P302 - IF ON SKIN: Wash hands after handling.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
106-97-8	Butane	2.5-10%	NA	1000	D
144-55-8	Carbonic acid monosodium salt (Sodium Bicarbonate)	2.5-10%	NA	NA	D
111-76-2	2-Butoxyethanol	1-2.5%	50	50	D
74-98-6	Propane	1-2.5%	1000	1000	D
1336-21-6	Ammonium hydroxide	0.1-1%	NA	NA	D

Other components below reportable levels 90-100%

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FIRST AID MEASURES

- Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.
- Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
- 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. If eye irritation persists, get medical advice/attention.
- Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

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FIRE FIGHTING MEASURES

Flammability:	Extremely Flammable Aerosol
Flash Point:	-156 Deg F (-104.44 Deg C) Propellant estimated
Flash Point Method:	NA
Burning Rate:	ND
Autoignition Temp:	ND
LEL:	ND
UEL:	ND

Extinguishing media: Water fog. Foam Dry chemical powder. Carbon dioxide (CO₂). Do not use water jet as an extinguisher, as this will spread the fire.

Unusual Fire & Explosion Hazard: Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special Fire fighting procedures: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

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ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

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

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HANDLING AND STORAGE

- Handling Precautions:** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools or explosion-proof equipment. Do not re-use empty containers. Do not get into eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid breathing gas. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- Storage Requirements:** Level 1 Aerosol
 Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50C/122F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 2 Aerosol.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Explosion-proof general and local exhaust ventilation. 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.
- Personal Protective Equip:** HMIS PP, A | Goggles
 Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
 Protective gloves: Use chemical resistant gloves if hand contact will be made.
 Eye protection: Safety glasses/ goggles
- Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. 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.

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PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|----------------------------|-------------------------------|------------------------------|---|
| Appearance: | Orange aerosol | Odor: | Ammonia |
| Physical State: | Gas | Molecular Formula: | NA |
| Particle Size: | NA | Solubility: | NA |
| Spec Grav./Density: | (H20=1): 0.99 estimated | Softening Point: | NA |
| Viscosity: | NA | Percent Volatile: | NA |
| Sat. Vap. Conc.: | NA | Heat Value: | NA |
| Boiling Point: | 212 Deg. F. (100 C) estimated | Freezing/Melting Pt.: | NA |
| Flammability: | Extremely Flammable Aerosol | Flash Point: | -156 Deg F (-104.44 Deg C) Propellant ester |
| Vapor Pressure: | 50 psig @ 70F estimated | Octanol: | NA |
| pH: | NA | Vapor Density: | NA |
| Evap. Rate: | NA | VOC: | 6.3 % |
| Molecular weight: | NA | Bulk Density: | NA |

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STABILITY AND REACTIVITY

Stability:	Stable and non-reactive under normal conditions of use, storage and transport.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Fire or intense heat may cause violent rupture of packages.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition:	No hazardous decomposition products are known.
Hazardous Polymerization:	Will not occur

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TOXICOLOGICAL INFORMATION

Ingestion Expected to be a low ingestion hazard.

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

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.

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

18 OZ NEUTRALIZER (CAS Mixture)

Acute

Dermal LD50 11332.8408 ml/kg, 24 hrs estimated (Guinea pig)
 LD50 359.6945 ml/kg, 4 days estimated (Guinea pig)
 LD50 15923.0293 mg/kg estimated (Rabbit)
 LD50 6105.5503 ml/kg, estimated (Rabbit)
 LD50 94397.6328 mg/kg estimated (Rat)

Inhalation LC100 2250% estimated (Cat)
 LC50 41666.668 mm/m³, 2 hrs estimated (Guinea pig)
 LC50 62500 mg/m³, 2 hrs estimated (Mouse)
 LC50 30925 mg/l, 120 mins estimated (Mouse)
 LC50 1300%, 120 mins estimated (Mouse)
 LC50 400.0001 mm/l, 2 hrs estimated (Mouse)
 LC50 19709.2871 ppm, 7 hrs estimated (Rabbit)
 LC50 23529.4219 mg/l, 4 hrs estimated (Rat)
 LC50 20759.166 ppm, 4 hrs estimated (Rat)
 LC50 12749.0313 mg/l, 4 hrs estimated (Rat)
 LC50 8741.7559 mg/l, if <1L: Consumer Commodity Hrs estimated (Rat)
 LC50 119.7917 mg/l, 2 hrs estimated (Rat)

Oral LD100 34244.8867 mg/kg estimated (Rabbit)
 LD50 34244.8867 mg/kg estimated (Dog)
 LD50 59127.8633 mg/kg estimated (Guinea pig)
 LD50 17752.4043 mg/kg estimated (Rat)

Components:

2-Butoxyethanol (111-76-2)

Acute

Dermal LD50 230 ml/kg, 24 hrs. (Guinea pig)
 LD50 7.3 ml/kg, 4 days (Guinea pig)
 LD50 450 ml/kg, 24 hrs (Rabbit)
 LD50 35 mg/kg, 24 hrs (Rabbit)
 LD50 0.63 ml/kg (Rabbit)
 LD50 >2000 mg/kg, 24 hrs (Rat)

Inhalation LC50 400 ppm, 7 hrs (Rabbit)
 LC50 450 ppm, 4 hrs (Rat)

Oral LD100 695 mg/kg (Rabbit)

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LD50 >695 mg/kg (Dog)
LD50 1200 mg/kg (Guinea pig)
LD50 530-2800 mg/kg (Rat)

Butane (106-97-8)

Acute

Inhalation LC50 1237 mg/l, 120 mins (Mouse)
LC50 52%, 120 mins (Mouse)
LC50 1355 mg/l (Rat)

Propane (74-98-6)

Acute

Inhalation LC50 1237 mg/l, 120 mins (Mouse)
LC50 52%, 120 mins (Mouse)
LC50 1355 mg/l (Rat)
LC50 658 mg/l 4hrs (Rat)

Carbonic acid (144-55-8)
monosodium salt
(Sodium Bicarbonate)

Acute

Oral LD50 >4000 mg/kg (Rat)

This product is not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

This product is not expected to cause reproductive or developmental effects.

This product is not an aspiration hazard. Not likely, due to the form of the product.

Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

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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.

18 OZ NEUTRALIZER (CAS Mixture)

Aquatic

Algae IC50 16284.5547 mg/l, 72 hrs estimated (Algae)

Crustacea EC50 554.8757 mg/l, 48 hrs estimated (Daphnia)

Fish LC50 1424.9493 mg/l 96 hrs estimated (Fish)

2-Butoxyethanol (111-76-2)

Aquatic

Fish LC50 1250 mg/l 96 hrs Inland silverside (*Menidia beryllina*)

Ammonium Hydroxide (CAS 1336-21-6)

Aquatic

Crustacea EC50 0.66 mg/L, 48 hrs (Daphnia)

Fish LC50 15 mg/l 96 hrs western mosquitofish (*Gambusia affinis*)

Carbonic acid (144-55-8)

monosodium salt

(Sodium Bicarbonate)

Aquatic

Crustacea EC50 2350 mg/L, 48 hrs (Daphnia)

Fish LC50 7550 mg/l, 96 hrs western mosquitofish (*Gambusia affinis*)

No data is available on the degradability of this product.

Bioaccumulative potential: No data available

Partition coefficient n-octanol/water (log Kow)

2-Butoxyethanol 0.83

Butane 2.89

Propane 2.36

No data on the mobility in soil.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between user, the producer and the waste disposal company.

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).

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. Do not re-use empty containers.

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TRANSPORT INFORMATION

DOT

UN number UN1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) None
Packing group Not applicable
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking on both and may be displayed concurrently.

IATA

UN number UN1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) None
Packing group Not applicable
Environmental hazards Yes
ERG Code 10L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo Allowed
Aircraft
Cargo aircraft only Allowed
Packaging exceptions LTD QTY

IMDG

UN number UN1950
UN proper shipping name AEROSOLS
Transport hazard class(es)
Class 2.1
Subsidiary risk -
Label(s) None
Packing group Not applicable
Environmental hazards
Marine pollutant No
EmS Not available.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions LTD QTY
Transport in bulk according to AnnexII of MARPOL 73/78 and Not applicable.

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the IBC Code



15	REGULATORY INFORMATION
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COMPONENT / (CAS/PERC) / CODES

- *Butane (106978 2.5-10%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
- *Carbonic acid monosodium salt (Sodium Bicarbonate) (144558 2.5-10%) TSCA
- *2-Butoxyethanol (111762 1-2.5%) HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR
- *Propane (74986 1-2.5%) MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR
- *Ammonium hydroxide (1336216 0.1-1%) CERCLA, CSWHS, MASS, NJEHS, PA, TSCA
- *Formaldehyde (50000 0.01-.1%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, NRC, OSHAHTS, OSHAPSM, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL
- *Diethanolamine (111422 n/a%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

- MASS = MA Massachusetts Hazardous Substances List
- OSHA WAC = OSHA workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- HAP = Hazardous Air Pollutants
- SARA313 = SARA 313 Title III Toxic Chemicals
- TSCA = Toxic Substances Control Act
- NJHS = NJ Right-to-Know Hazardous Substances

- CERCLA = Superfund clean up substance
- CSWHS = Clean water Act Hazardous substances
- NJEHS = NJ Extraordinarily Hazardous Substances

- EHS302 = Extremely Hazardous Substance
- EPCRAWPC = EPCRA Water Priority Chemicals
- NRC = Nationally Recognized Carcinogens
- OSHAHTS = OSHA Hazardous and Toxic Substances
- OSHAPSM = OSHA Chemicals Requiring process safety management
- PROP65 = CA Prop 65
- TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
- TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

We believe the statements technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. ** Chemical listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not listed [e] Animal data only
N/A = Not available N/D = Not determined