SAFETY DATA SHEET

Napa Macis protectant SPRAY 4316

1. Identification

Product number

1000028751

Product identifier

13 OZ NAPA MAC'S BATTERY TERMINAL CLEANER 1072

Company information

NAPA Balkamp

2601 Stout Heritage Parkway

Plainfield, IN 46168 United States

Company phone

General Assistance 1-317-754-3900

Emergency telephone US

1-866-836-8855

Emergency telephone outside

1-952-852-4646

US

Version #

01

Recommended use

CLEANER

Recommended restrictions

None known.

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response

Wash hands after handling.

Storage

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

Disposal

Dispose of waste and residues 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	%
Butane		106-97-8	2.5 - 10
Isopropyl Alcohol		67-63-0	2.5 - 10
Propane		74-98-6	2,5 - 10
Sodium Carbonate Anhydrous		497-19-8	1 - 2.5
Other components below reporta			80 - 90

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
Skin contact

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

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Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Ingestion

Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available.

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

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

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 containers from fire area if you can do so without risk. Use water spray to cool unopened

containers. In the event of fire and/or explosion do not breathe fumes.

Specific methods

General fire hazards

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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

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. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. 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 away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

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

Isopropyl Alcohol (CAS PEL 980 mg/m3 67-63-0)

US. OSHA Table Z-1 Li Components		Туре			Value	
Propane (CAS 74-98-6)		PEL			400 ppm	
(0) 10 1 1 00 0		PEL			1800 mg/m3 1000 ppm	
US. ACGIH Threshold L	imit Values				тово ррш	
Components		Туре			Value	
Butane (CAS 106-97-8)		STEL			1000 ppm	
Isopropyl Alcohol (CAS 67-63-0)		STEL			400 ppm	
· · · · · · · · · · · · · · · · · · ·		TWA			200 ppm	
US. NIOSH: Pocket Guid	de to Chemical H	lazards				
Components		Type			Value	
Butane (CAS 106-97-8)		TWA			1900 mg/m3	
					800 ppm	
Isopropyl Alcohol (CAS 67-63-0)		STEL		٠	1225 mg/m3	
					500 ppm	
		TWA			980 mg/m3	
Propane (CAS 74-98-6)		77.444			400 ppm	
Fropalie (CAS 74-98-6)		TWA			1800 mg/m3	
					1000 ppm	
gical limit values						
ACGIH Biological Expos						
Components	Value		Determinant	Specimen	Sampling Time	
sopropyl Alcohol (CAS 37-63-0)	40 mg/l		Acetone	Urine	*	
- For sampling details, pl	ease see the sou	rce docun	nent:			
opriate engineering ols	Good gener should be m or other eng	al ventilat atched to ineering o	ion (typically 10 conditions. If apcontrols to mainta	plicable, use p ain airborne lev	hour) should be used. Ventilation ocess enclosures, local exhaust vels below recommended exposure hirborne levels to an acceptable le	entila

Indiv

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

9. Physical and chemical properties

Appearance

Physical state

Gas.

Form

Aerosol.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

рΗ

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

212 °F (100 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) PROPELLANT estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

2.5 % estimated

(%)

Flammability limit - upper

12 % estimated

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

60 psig @70F estimated

Vapor density

Not available. Not available.

Relative density Solubility(ies)

Partition coefficient

Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature

Solubility (water)

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Specific gravity

0.95 @70F estimated

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. Hazardous polymerization does not occur.

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Acids. Strong oxidizing agents. Nitrates. Isocyanates. Fluorine. Chlorine.

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

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.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016

Components	Species	Test Results
Butane (CAS 106-97-8)	·	Test Results
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Isopropyl Alcohol (CAS 67-6	33-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	16.4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	> 10000 ppm, 6 Hours
Oral	_	
LD50	Rat	5.84 g/kg
Propane (CAS 74-98-6)		
<u>Acute</u> Inhalation		
LC50	Mouse	
2000	Wouse	1237 mg/l, 120 Minutes
	D-4	52 %, 120 Minutes
	Rat	1355 mg/l
Sodium Carbonata Anhydrau	- (0.10, 407, 40, 5)	658 mg/l/4h
Sodium Carbonate Anhydrous Acute	s (CAS 497-19-8)	
<u>Acute</u> Dermal		
LD50	Rabbit	
Inhalation	Nabbit	> 2000 mg/kg
LC50	Guinea pig	
Aerosol	- Limou pig	800 mg/m3, 2 Hours
LC50	Mouse	1200 mg/m2 2 Haves
	Rat	1200 mg/m3, 2 Hours
LC50	Rat	2300 mg/m3, 2 Hours
Oral		2.3 mg/l, 2 hours supplier
LD50	Rat	2900 ma/ka
* Fration 4		2800 mg/kg
Estimates for product ma	ay be based on additional component	data not shown.
Skin corrosion/irritation	Prolonged skin contact may caus	se temporary irritation.
Serious eye damage/eye rritation	Direct contact with eyes may cau	se temporary irritation.
_		

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

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

Jific target organ toxicity -

∠ingle exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not likely, due to the form of the product.

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.

Components	Species Species		armful or damaging effect on the environment	
Isopropyl Alcohol (CA	AS 67-63-0)	Species	Test Results	
Aquatic	,			
Algae	IC50	Algee		
Crustacea	EC50	Algae	1000.0001 mg/L, 72 Hours	
Fish	LC50	Daphnia	13299 mg/L, 48 Hours	
Sodium Carbonate Anhydrous (CAS 497-19-		Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	
Aquatic	···) ··· • • • • (O/\O 49/	- 19-8)		
Crustacea	EC50	Daphnia	265 mg/L 40 LL	
Fish		Water flea (Ceriodaphnia dubia)	265 mg/L, 48 Hours	
	LC50	Bluegill (Lepomis macrochirus)	156.6 - 298.9 mg/l, 48 hours 300 mg/l, 96 hours	
Estimates for product	may be based on		ood mga, ad nours	

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow) Butane

Isopropyl Alcohol

2.89

Propane

0.05 2.36

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. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

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

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:

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number

UN1950

UN proper shipping name Transport hazard class(es)

Aerosols, flammable, (each not exceeding 1 L capacity)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

Packaging exceptions Packaging non bulk Packaging bulk

306 None None

IATA

UN number

UN1950

UN proper shipping name Transport hazard class(es)

Aerosols, flammable

Class

Subsidiary risk

2.1

Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

No.

ERG Code

10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions. LTD QTY

Packaging Exceptions

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

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

DOT



IATA; IMDG



Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

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

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

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

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0)

Listed: January 1, 1988

International Inventories

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

06-27-2016

Version #

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

Revision information

Product and Company Identification: Product and Company Identification

Product name: 13 OZ MACS BTTY TRMINAL CLN 1072 LT 12PK Product #: 1000028751 Version #: 01 Issue date: 06-27-2016