SAFETY DATA SHEET

1. Identification

Product number Product identifier Company information	1000028762 6200 MACS ENGINE CLEANER AND DEGREASTER 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 US	1-952-852-4646
Version #	01
Recommended use	SAMPLE
Recommended restrictions	None known.
2 Hozard(a) identification	

2. Hazard(s) identification

Label elements

Physical hazards	Flammable aerosols	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
OSHA defined hazards	Not classified.	

	▼ ▼			
Signal word	Danger			
Hazard statement	Extremely flammable aerosol. May cause an allergic skin reaction. Causes serious eye irritation.			
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. Avoid breathing gas. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.			
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.			
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.			
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.			
Environmental hazards	Hazardous to the aquatic environment, acute Category 2 hazard			
	Hazardous to the aquatic environment, Category 2 long-term hazard			
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

Chemical name	Common name and synonyms	CAS number	%
d-Limonene		5989-27-5	2.5 - 10
2-butoxyethanol		111-76-2	1 - 2.5
EDTA Tetrasodium Salt		64-02-8	1 - 2.5
Propane		74-98-6	1 - 2.5
Other components below report	able levels		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	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
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	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5 Fire-fighting measures	

5. Fire-fighting measures

Suitable extinguishing media	Not available.			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.			
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.			
Fire fighting equipment/instructions	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.			
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.			
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. Avoid breathing gas. 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. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Environmental precautions	Small Spills: 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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Do not get in eyes, on skin, or on clothing. Avoid breathing gas. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.
inologing any moonpation	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).

8. Exposure controls/personal protection

Occupational exposure limits

Components		Туре		Val	ue	
2-butoxyethanol (CAS 111-76-2)		PEL		240	mg/m3	
					opm	
Propane (CAS 74-98-6)		PEL			0 mg/m3	
				100	0 ppm	
US. ACGIH Threshold Li	mit Values					
Components		Туре		Val	ue	
2-butoxyethanol (CAS 111-76-2)		TWA		20	opm	
Butane (CAS 106-97-8)		STEL		100	0 ppm	
US. NIOSH: Pocket Guid	e to Chemical Ha	azards				
Components		Туре		Val	ue	
2-butoxyethanol (CAS 111-76-2)		TWA		24	mg/m3	
				5 p	om	
Butane (CAS 106-97-8)		TWA		190	0 mg/m3	
				800	222	
				000	ppm	
Propane (CAS 74-98-6)		TWA			0 mg/m3	
Propane (CAS 74-98-6)		TWA		180	••	
Propane (CAS 74-98-6) ogical limit values		TWA		180	0 mg/m3	
	ure Indices	TWA		180	0 mg/m3	
ogical limit values	ure Indices Value	TWA	Determinant	180	0 mg/m3	
ogical limit values ACGIH Biological Expos Components 2-butoxyethanol (CAS		TWA	Determinant Butoxyacetic	180 100	0 mg/m3 0 ppm	
ogical limit values ACGIH Biological Expos Components	Value	TWA	Butoxyacetic acid (BAA),	180 100 Specimen	0 mg/m3 0 ppm	
ogical limit values ACGIH Biological Expos Components 2-butoxyethanol (CAS 111-76-2)	Value 200 mg/g		Butoxyacetic acid (BAA), with hydrolysis	180 100 Specimen Creatinine in	0 mg/m3 0 ppm	
ogical limit values ACGIH Biological Expos Components 2-butoxyethanol (CAS 111-76-2) * - For sampling details, pl	Value 200 mg/g		Butoxyacetic acid (BAA), with hydrolysis	180 100 Specimen Creatinine in	0 mg/m3 0 ppm	
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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	Face shield is recommended. Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

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Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	-156.0 °F (-104.4 °C) propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.984 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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
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	May cause an allergic skin reaction.
	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	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

May cause an allergic skin reaction.

Components	Species	Test Results
2-butoxyethanol (CAS 111-76	5-2)	
Acute		
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days
		0.23 ml/kg, 24 Hours
	Rabbit	435 mg/kg, 24 Hours
		0.68 ml/kg, 24 Hours
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1414 mg/kg
	Mouse	1519 mg/kg
	Rat	1746 mg/kg
Butane (CAS 106-97-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l

Components	Species	Test Results
d-Limonene (CAS 5989-27-5)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
EDTA Tetrasodium Salt (CAS 64-	02-8)	
<u>Acute</u>		
Oral		
LD50	Rat	1658 mg/kg
Propane (CAS 74-98-6)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
* Estimates for product may b	e based on additional componer	t data not shown.
Skin corrosion/irritation	Prolonged skin contact may ca	use temporary irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin rea	ction.
Germ cell mutagenicity	No data available to indicate pr mutagenic or genotoxic.	roduct or any components present at greater than 0.1% are
Carcinogenicity	This product is not considered	to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
	Evaluation of Carcinogenicity	
2-butoxyethanol (CAS 11 d-Limonene (CAS 5989-2	1-76-2)	3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. 01-1050)
Not regulated. US. National Toxicology Pro	ogram (NTP) Report on Carcinc	gens
Not listed.		
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of th	e product.
Chronic effects	May be harmful if absorbed thr	-
	2-Butoxy ethanol may be abso	rbed through the skin in toxic amounts if contact is repeated and a not been observed in humans.
12. Ecological information	1	
	-	

Ecotoxicity	Toxic to aquatic life with long lasting effects.			
Components		Species	Test Results	
2-butoxyethanol (CAS	5 111-76-2)			
Aquatic				
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	

Components		Species	Test Results
d-Limonene (CAS 5989-27	'-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours
EDTA Tetrasodium Salt (C	AS 64-02-8)		
Aquatic			
Algae	IC50	Algae	1.01 mg/L, 72 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours

* 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-c	octanol / water (log Kow)
2-butoxyethanol	0.83
Butane	2.89
d-Limonene	4.232
Propane	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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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 safe manner (see: Disposal instructions).
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	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
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	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.

ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, flammable

	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	Yes
	ERG Code	10L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
	Packaging Exceptions	LTD QTY
IMI	DG	
	UN number	UN1950
	UN proper shipping name	AEROSOLS
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-D, S-U
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
	Packaging Exceptions	LTD QTY
	insport in bulk according to	Not applicable.
	nex II of MARPOL 73/78 and	
the	IBC Code	

Α the IBC Code

DOT





Marine pollutant



IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.12		ned by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 707, S	ubpt. D)	
Not regulated.			
CERCLA Hazardous Substa	ance List (40 CFR 302.4)		
Not listed. SARA 304 Emergency relea	se notification		
Not regulated.			
OSHA Specifically Regulate	ed Substances (29 CFR 191	0.1001-1050)	
Not regulated.	Υ.	,	
Superfund Amendments and Re	eauthorization Act of 1986 ((SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	,	
SARA 302 Extremely hazard Not listed.	dous substance		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
2-butoxyethanol		111-76-2	1 - 2.5
2-butoxyethanol Other federal regulations		111-76-2	1 - 2.5
Other federal regulations	n 112 Hazardous Air Polluta	-	1 - 2.5
Other federal regulations Clean Air Act (CAA) Section	n 112 Hazardous Air Polluta	-	1 - 2.5
Other federal regulations		unts (HAPs) List	
Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Butane (CAS 106-97-8)		unts (HAPs) List	
Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act (SDWA)	n 112(r) Accidental Release	unts (HAPs) List	
Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act (SDWA) US state regulations	n 112(r) Accidental Release Not regulated.	ants (HAPs) List Prevention (40 CFR	68.130)
Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act (SDWA) US state regulations	n 112(r) Accidental Release Not regulated.	ants (HAPs) List Prevention (40 CFR	
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Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act (SDWA) US state regulations US. California Controlled Sec Not listed. US. California. Candidate C	n 112(r) Accidental Release Not regulated. ubstances. CA Department hemicals List. Safer Consu	onts (HAPs) List Prevention (40 CFR of Justice (Californi	68.130) a Health and Safety Code Section 11100)
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US. Pennsylvania Worker and Community Right-to-Know Law

2-butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US. Rhode Island RTK

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

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
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	01-08-2019
Version #	01
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: Alternate Trade Names