

Section 1: Information Product Name	Butane for BHST-200 (#99142)					
Product Code(s)	Butane1					
Recommended Usage	Fuel					
Manufacturer/Distributor	ECM Industries	LLC (dba Gardner Be	ender)			
Address	16250 W. Woods Edge Road					
	New Berlin, WI 53151					
Website	www.ecmindustrie	s.com				
Telephone Number	1-800-624-4320					
EMERGENCY Telephone Number	Chemtrec: (24/7) 8	300-424-9300 Or Internatio	onal 703-527-3887			
Section 2: Hazard Identification						
Classification according to Regulation (EC) No 1272/2008 Classification according to Directive	GHS02 flame Flam. Gas 1 H220 Extremely flammable gas. Flam. Liq. 1 H224 Extremely flammable liquid and vapour. Press. Gas H280 Contains gas under pressure; may explode if heated. ive 67/548/EEC or F+; Extremely flammable					
Directive 1999/45/EC	, ,					
Information concerning particular	hazards for hu	nan & environment	Not applicable.			
GHS Label Elements						
Labelling according to Regulation	The substar	nce is classified and lab	elled according to the CLP			
(EC) No 1272/2008	regulation.		G			
Hazard pictograms	GHS02					
Signal Word	Danger					
Hazard Statement	H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated. H224 Extremely flammable liquid and vapour. Restricted to professional users.					
Precautionary Statements	Precautionary Statements					
P101 If medical advice is needed, have P102 Keep out of reach of children.	ve product contain	ner or label at hand.				

- P103 Read label before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. of page 1)

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.



P243 Take precautionary measures against static discharge.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P381 Eliminate all ignition sources if safe to do so.

P410 Protect from sunlight.

P403 Store in a well-ventilated place.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

regulations.						
Hazard description						
WHMIS-symbols	A – Compresse	ed Gas	B1 – Flammable Gas			
NFPA ratings (scale 0 - 4)	040	Health = 0 Fire = 4 Reactivity = 0				
HMIS-ratings (scale 0 - 4)	HEALTH 0 FIRE 4 REACTIVITY 0	Health = 0 Fire = 4 Reactivity = 0				
Other hazards : Results of PBT and vPvB assessment						
PBT	Not Applicable	Not Applicable				
vPvB	Not Applicable	Not Applicable				

VPVB	vPvB Not Applicable					
Section 3 - Composition/Information on Ingredients						
CAS No. Description	Description					
68476-86-8	Petroleum gases, liquefied, sweetened					
Identification number(s)						
EC number	270-705-8					
Index number	649-203-00-1					

Section 4: First-Ai	d Measures			
Inhalation	Supply fresh air; consult doctor in case of complaints			
Skin	Generally the product does not irritate the skin.			
	Immediately rinse with water.			
	If skin irritation continues, consult a doctor.			
Eye	Remove contact lenses if worn.			
	Rinse opened eye for several minutes under running water. If symptoms persist,			
	consult a doctor.			
Ingestion	Unlikely route of exposure.			
	Do not induce vomiting; call for medical help immediately.			
Most Important Symptoms/Effects (Acute & Delayed) Potential Health Effects				



No further relevant information ava	ailablo				
Indication of Immediate Medical Attention & Special Treatment Needed, If Necessary					
No further relevant information ava		pecial freatment needed, if needsbury			
Section 5: Fire-Fighting Measure					
Suitable Extinguishing Media		CO2, powder or water spray. Fight larger fires			
		with water spray or alcohol resistant foam.			
Special hazards arising from the	substance or	mixture No further relevant information available.			
	Advice f	for firefighters			
Special Protective Equipment for	•	Wear self-contained respiratory protective device.			
Firefighters		Wear fully protective suit.			
Additional information		Cool endangered receptacles with water spray.			
Section 6 - Accidental Release Me					
		equipment and emergency procedures			
Wear protective equipment. Keep u	inprotected pe	ersons away.			
=	Ensure adequate ventilation				
Keep away from ignition sources.					
Environmental Precautions	Do not allow to enter sewers/ surface or ground water.				
Methods and material for containment and cleaning up	Allow to evaporate.				
	See Section 7	for information on safe handling.			
Reference to other sections	See Section 8	B for information on personal protection equipment.			
	See Section 1	3 for disposal information.			
Section 7 - Handling and Storage					
		Open and handle receptacle with care.			
Information about fire - and		gnition sources away - Do not smoke.			
explosion protection		t from heat.			
		t against electrostatic charges.			
		e, including any incompatibilities			
Requirements to be met by Store in a cool location.					
storerooms and receptacles	Charre				
Information about storage in one	store a	way from oxidizing agents.			
common storage facility	Georgia	n goal dry conditions in wall goaled recenteries			
Further information about storage conditions		n cool, dry conditions in well-sealed receptacles. t from heat and direct sunlight.			
Specific end use(s)		ther relevant information available.			
specific end use(s)	NO IUI	uici icicvani iiivimauvii avallavie.			



Section 8 - Exposure	e Co	ntrols/F	Person	al Protecti	on				
Control parameters									
Ingredients with limit values that require monitoring at the workplace			Not required.						
Additional in	forn	nation			The lists valid during basis.	g the m	aki	ng were use	ed as
Exposure controls									
General protective and hygienic measures			Wash hands before breaks and at the end of work.						
Respirat	tory	protect	ion		Use suitable respirationsufficient ventilati		ote	ctive device	in case of
Skin Protection									
Hand Protect	ion				Not required.				
Material of gloves The degree of			depend on the mater	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to					
Penetration time of glove material			erial	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.					
Eye protection:				Not required.					
Section 9 - Physical	and								
		Inform	ation	on Physica	l and Chemical Prope				
Appearance					Self-Igniting	N/D			
Form			<u>d lique</u>	fied gas	Explosion Limits				
Colour		ourless			Lower 1,8 Vol %				
Odour		ourless			Upper			5 Vol %	
Odour Threshold		t Determ	ined (N/D)	Vapour Pressure at 2	21º C		314 hPa (211	0 mm Hg)
pH Value	N/l	D			Density at 20° C		0,!	56 g/cm ³	
Change in Condition	1				Relative Density				N/D
Melting Point	t/Ra	nge	N/D		Vapour Density at 20	0º C		1,7237 (Ai	r = 1,0)
Boiling Point	/Ra	nge	-24°C	(- 11 °F)	Evaporation Rate				N/A
Flash Point (Closed Cup) -91°C (- 132 °F)		Solubility in / Miscibility w/ Not miscible of difficult to miscible of the control of the contr							
Flammability (Solid, Gaseous) N/D							·) N/D		
Ignition Temperature Viscosity						, , ,			
Decomposition Temperature N/D			Dynamic				N/D		
•								N/D	
Danger of explosion	1:			t explosive. possible.	However, formations of	of explo	siv	e air/vapou	
Other information				<u>. </u>	No further relevant information available.				



Section 10: Stability and	l Reactivity					
Reactivity	No further relevant information available.					
	Thermal decomposition / conditions to be avoided:					
Chemical Stability	No decomposition if used according to specifications.					
·	To avoid thermal decomposition do not overheat.					
	Used empty containers may contain product gases which form explosive					
	mixtures with air.					
Possibility of	Reacts with strong oxidizing agents.					
Hazardous Reactions	Danger of recepta	cles bursting	because of high vapour pressure when heated.			
	Can form explosiv	ve mixtures ii	n air if heated above flash point and/or when			
	sprayed or atomis	sed.				
Conditions to Assoid	Keep ignition sou	rces away - D	0o not smoke.			
Conditions to Avoid	Store away from	oxidizing age	nts.			
Incompatible Materials	•					
Hazardous Decomposit	ion Products	Carbon mone	oxide and carbon dioxide			
Section 11 - Toxicologic	al Information					
	Informati	on on Toxico	ological Effects			
			Primary irritant effect:			
Irritation / Corrosion			② On the skin: No irritant effect.			
			② On the eye: No irritating effect.			
Sensitization			No sensitizing effects known.			
Section 12 - Ecological I	nformation					
Aquatic Toxicity		No further r	elevant information available.			
Persistence and Degrad	ability	No further r	elevant information available.			
Bioaccumulative Potent		Does not ac	cumulate in organisms			
Mobility in Soil			elevant information available.			
Other Adverse Effects		No further r	elevant information available.			
0.1 7.6		Negative ecological effects are, according to the current				
Other Information state of knowledge, not expected.						
Section 13 - Disposal Considerations						
Can be burned with household garbage after consulting with the waste						
Recommendation	disposal facility operator and the pertinent authorities and adhering to the					
	necessary technical regulations.					
			nust be made according to official regulations.			
Uncleaned packaging		_	ents: Water, if necessary together with cleansing			
1 0 0	agents.					



Substance is not listed.

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	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)			14.4 Packing Group	14.5 Environmental Hazards	
DOT	UN1011	1011, BUTANE	· Sanar Car		s 2.1 el 2.1	N/A	No	
TDG	UN1011	1011, BUTANE			s 2.1 F1 el 2.1	N/A	No	
IMO/IMDG	UN1011	1011, BUTANE			s 2.1 el 2.1	N/A	No	
IATA/ICAO	UN1011	1011, BUTANE			s 2.1 el 2.1	N/A	No	
Special precautions for user N/A						<u> </u>	J	
		ng to Annex II of MA	RPOL 73/78	3	N/A			
and the IBC								
UN "Model Regulation" UN101 Section 15 - Regulatory Information						1, BUTANE, 2	2.1	
SARA	Regulatory III	lormation						
	on 355 (extren	nely hazardous subs	tances)			Substance is	s not listed.	
Section 355 (extremely hazardous substances) Section 313 (Specific toxic chemical listings)						Substance is not listed.		
	Substances Co		8-7			Substance is listed.		
	65 (California							
Chemicals known to cause cancer						Substance is not listed.		
Chemicals known to cause reproductive toxicity for females						Substance is not listed.		
Chemicals known to cause reproductive toxicity for males						Substance is not listed.		
Chemicals known to cause developmental toxicity					Substance is not listed.			
EPA (Environmental Protection Agency)					Substance is not listed.			
TLV (Threshold Limit Value established by ACGIH)					Substance is not listed.			
NIOSH-Ca (National Institute for Occupational Safety and Health)				Substance is not listed.				
OSHA-Ca (Occupational Safety & Health Administration)						Substance is	not listed.	
Canada	dian Damasti-	Cubatanas a List (DC	1)			Cubatana	liated	
Lanac	uian Domestic	Substances List (DS	LJ			Substance is	s iistea.	

Canadian Ingredient Disclosure list (limit 0.1%)

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

Canadian Ingredient Disclosure list (limit 1%)



Section 16 - Other Information	
Last Revision Date:	06.30.2015
Printing Date:	07.17.2015
Disclaimer/Statement of Liability:	The information contained herein is believed to be accurate but is
	not warranted to be so. Data and calculations are based on
	information furnished by the manufacturer of the product and
	manufacturers of the components of the product. Users are
	advised to confirm in advance of need that information is current,
	applicable and suited to the circumstance of use. Vendor assumes
	no responsibility for injury to vendee or third persons proximately
	caused by the material if reasonable safety procedures are not
	adhered to as stipulated in the data sheet. Furthermore, vendor
	assumes no responsibility for injury caused by abnormal use of
	this material even if reasonable safety procedures are followed.
	Any questions regarding this product should be directed to the
	manufacturer of the product as described in Section 1.

Key to abbre	viations		
ACGIH	American Conference of Governmental Industrial	TWA	Time-Weighted Averages are based on 8h/day, 40h/week
	Hygiene		exposures
NIOSH	National Institute of Occupational Safety and	STEL	Short Term Exposure Limits are based on 15-minute
	Health		exposures
OSHA	Occupational Safety and Health Administration	STEV	Short Term Exposure Value
MSHA	Mine Safety and Health Administration	TWAEV	Time Weighted Average Exposure Values
MARPOL	International Convention for the Prevention of	IBC Code	International Bulk Chemical Code
73/78	Pollution from Ships,		
	1973, as modified by the Protocol of 1978		
	relating thereto, as amended.		
IMDG	International	CEPA	Canadian Environmental Protection Act
	Maritime Dangerous Goods		
WHMIS	Workplace Hazardous Materials Information	CERCLA	Comprehensive Environmental Response, Compensation,
	System		and Liability Act
SARA	Superfund Amendments and Reauthorization Act	TPQs	Threshold Planning Quantities
EPCRA RQ	Emergency Planning & Community Right-to-	PBT	Persistent Bioaccumulative Toxic
	Know Act Reportable Quantities		
N/A	Not Applicable	NDA	Not Data Available