



SAFETY DATA SHEET

1. Identification

Other means of identification None known.

Product identifier **BRENNSPERSE 2070**

Recommended use ALL PROPER AND LEGAL PURPOSES

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brenntag Great Lakes, LLC

Address 4420 N. Harley Davidson Ave.
Wauwatosa, WI 53225

Telephone 262-252-3550

E-mail Not available.

Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 51% of the mixture consists of component(s) of unknown acute oral toxicity. 51% of the mixture consists of component(s) of unknown acute dermal toxicity. 98.98% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	0.005
TRADE SECRET*		Proprietary*	0.002
TRADE SECRET*		Proprietary*	0.001
TRADE SECRET*		Proprietary*	0.0006
TRADE SECRET*		Proprietary*	0.0004
TRADE SECRET*		Proprietary*	0.0004
TRADE SECRET*		Proprietary*	0.0002
TRADE SECRET*		Proprietary*	0.0002
TRADE SECRET*		Proprietary*	0.0001
TRADE SECRET*		Proprietary*	0.0001
TRADE SECRET*		Proprietary*	0.0001

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	0.0001
Other components below reportable levels			99.9898

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
TRADE SECRET	STEL	10 ppm
	TWA	2 ppm

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

Components	Type	Value	Form
TRADE SECRET	PEL	70 mg/m ³	
		360 mg/m ³	
		25 mg/m ³	
		2400 mg/m ³	
		20 mg/m ³	
		2 mg/m ³	
		1.4 mg/m ³	
		1 mg/m ³	Dust and mist.
		0.3 mg/m ³	
		0.1 mg/m ³	Fume.
		5 ppm	
		40 ppm	
		200 ppm	
		1000 ppm	
		10 ppm	
1 ppm			

US. ACGIH Threshold Limit Values

Components	Type	Value	Form	
TRADE SECRET	Ceiling	25 ppm		
		500 ppm		
	TWA	TWA	15 ppm	
			5 mg/m ³	
			1 mg/m ³	
			1 mg/m ³	Dust and mist.
			0.2 mg/m ³	Fume.
			0.03 mg/m ³	Inhalable fraction and vapor.
			250 ppm	
			20 ppm	
			2 ppm	
			10 ppm	
			10 ppm	
			1 ppm	
			0.2 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form	
TRADE SECRET	Ceiling	2 mg/m ³		
		10 ppm		
	STEL	STEL	45 mg/m ³	
			37 mg/m ³	
			15 ppm	
	TWA	TWA	15 ppm	
			590 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
		5 mg/m3	
		34 mg/m3	
		30 mg/m3	
		25 mg/m3	
		1.4 mg/m3	
		1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
		0.03 mg/m3	
		250 ppm	
		20 ppm	
		10 ppm	
		10 ppm	
		1 ppm	
		1 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
TRADE SECRET	25 mg/l	Acetone	Urine	*
	200 mg/l	Furoic acid, with hydrolysis	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

TRADE SECRET (CAS Proprietary) Skin designation applies.

US - Tennessee OELs: Skin designation

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

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

TRADE SECRET (CAS Proprietary) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation 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.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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	Liquid.
Form	Liquid.
Color	CLEAR COLORLESS TO LIGHT YELLOW

Odor MILD

Odor threshold Not available.

pH Not available.

Melting point/freezing point 32 °F (0 °C)

Initial boiling point and boiling range 212.04 °F (100.02 °C) estimated

Flash point 212.0 °F (100.0 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive 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

Density 11.30 lbs/gal
1.35 g/ml

Explosive properties Not explosive.

Flammability class Combustible III B estimated

Oxidizing properties Not oxidizing.

Percent volatile 48.99 % estimated

Specific gravity 1.35

VOC 0.01 % 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 No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Toxic gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
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 Not known.

Components	Species	Test Results
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TRADE SECRET

Acute

Dermal

LD50	Rabbit	20000 mg/kg
		3540 mg/kg
		1060 mg/kg
	Rat	500 mg/kg
		390 mg/kg
		> 900 mg/kg
Inhalation	Rat	11.4 mg/l, 4 Hours
		0.756 mg/l, 1 Hours

Oral

LD50	Rat	> 400 mg/kg
		5800 mg/kg
		1600 mg/kg
		661 mg/kg
		320 mg/kg
		175 mg/kg
		127 mg/kg
		124 mg/kg
		78 mg/kg
3.31 g/kg		

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

Respiratory or skin sensitization

ACGIH sensitization

TRADE SECRET (CAS Proprietary)

Dermal sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRADE SECRET (CAS Proprietary)

2A Probably carcinogenic to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

TRADE SECRET (CAS Proprietary)

Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

TRADE SECRET (CAS Proprietary)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful.

Further information Acetone has increased the liver toxicity of chemicals, such as, carbon tetrachloride, chloroform and trichloroethylene. Acetone has also increased the lung toxicity of styrene and the toxicity of acrylonitrile and 2,5 hexanedione in laboratory animals. Acetone also appears to inhibit the metabolism and elimination of ethyl alcohol, thereby potentiating its toxicity. Acetone can increase or decrease the toxicity of 1,2-dichlorobenzene, depending on the concentration of Acetone.

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	Test Results
TRADE SECRET		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		10294 - 17704 mg/l, 48 hours 65 mg/l, 48 hours 39.4 - 59.1 mg/l, 48 hours 7.38 mg/l, 48 hours 0.12 - 0.15 mg/l, 48 hours 0.036 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)
		Fathead minnow (Pimephales promelas)
		> 100 mg/l, 96 hours 77 - 160 mg/l, 96 hours 28 - 34 mg/l, 96 hours 13.4 - 19.3 mg/l, 96 hours 6.7 - 15 mg/l, 96 hours 0.0319 - 0.0544 mg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		4740 - 6330 mg/l, 96 hours 28.5 mg/l, 96 hours 0.044 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

TRADE SECRET

- 0.17
- 0.24
- 0.25
- 0.33
- 0.34
- 0.41
- 0.59
- 0.67
- 1.58

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.
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.

14. Transport information

DOT
 Not regulated as dangerous goods.
 Transportation information on packaging may be different from that listed.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

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

TRADE SECRET (CAS Proprietary) 0.1 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

TRADE SECRET (CAS Proprietary) Listed.

SARA 304 Emergency release notification

TRADE SECRET (CAS Proprietary) 100 LBS
 1000 LBS
 5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

TRADE SECRET (CAS Proprietary) Cancer
 Central nervous system
 Liver
 Skin sensitization
 Skin irritation
 Respiratory irritation
 Eye irritation
 Acute toxicity
 Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
TRADE SECRET	Proprietary	5000		1000	10000
TRADE SECRET	Proprietary	100	10000		
TRADE SECRET	Proprietary	100		500	10000
TRADE SECRET	Proprietary	1000	1000		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
 Not regulated.

Other federal regulations

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

TRADE SECRET (CAS Proprietary)

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

TRADE SECRET (CAS Proprietary)

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

TRADE SECRET (CAS Proprietary) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

TRADE SECRET (CAS Proprietary) 35 %WV

DEA Exempt Chemical Mixtures Code Number

TRADE SECRET (CAS Proprietary) 6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

TRADE SECRET (CAS Proprietary) High priority
Low priority

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including TRADE SECRET, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

TRADE SECRET (CAS Proprietary) Listed: April 1, 1988
Listed: January 1, 1990
Listed: July 1, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

TRADE SECRET (CAS Proprietary) Listed: February 25, 2011

California Proposition 65 - CRT: Listed date/Male reproductive toxin

TRADE SECRET (CAS Proprietary) Listed: February 25, 2011

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

TRADE SECRET (CAS Proprietary)

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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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 04-14-2020
Version # 01
HMIS® ratings Health: 0
 Flammability: 0
 Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

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