

# 504893 ETHYL-2 PYRAZINE

 Revision Date: 02-13-2018
 Page 1 of 10

 Version # 02
 Print Date: 02-13-2018

1. IDENTIFICATION			
Product Description:	ETHYL-2 PYRAZINE		
CAS #	13925-00-3		
FEMA Number	3281		
Other means of identification Vigon Item #	504893		
Recommended use		-	which may be used in flavor and fragrance FEMA GRAS/FDA guidelines.
Recommended restrictions	For Manufacturing Use Or	nly	
<u>Company</u>		24 Hour Emerge	ency Response Information
Vigon International, Inc.		INFOTRAC (AC	
127 Airport Road			WITHIN THE U.S.A.
E. Stroudsburg, PA 18301		1-352-323-3500	OUTSIDE THE U.S.A.
For information call: 570-476-630	0		
Web Site: www.vigon.com			
Manufacturer/Importer/Supplier/D	Distributor information		
Manufacturer			
Company name	Vigon International, Inc.		
Address	127 Airport Road		
	E. Stroudsburg, PA 18301 United States		
Telephone	For information call:	570-476-6300	
Website	www.vigon.com		
E-mail	Not available.		
Emergency phone number	INFOTRAC	(ACCT# 78928	
	1-800-535-5053	WITHIN THE L	
	1-352-323-3500	OUTSIDE THE	- U.S.A.
2. HAZARD(S) IDENTIFIC	ATION		
Physical hazards	Flammable liquids		Category 3
Health hazards	Acute toxicity, oral		Category 4
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye i	rritation	Category 1
	Specific target organ toxic exposure	ity, single	Category 3 respiratory tract irritation
Environmental hazards	Not classified.		
Label elements	•		





# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018	Page 2 of 10
Version # 02	Print Date: 02-13-2018

Signal word	Danger
Hazard statement	Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
ETHYL-2 PYRAZINE	2-ETHYLPYRAZINE 2- ethyl-1,4-diazine	13925-00-3	100

### 4. FIRST-AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018	Page 3 of 10
Version # 02	Print Date: 02-13-2018

Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Not available.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam. Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
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. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.
Specific methods	Use water spray to cool unopened containers.
General fire hazards	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
	The product is immiscible with water and will spread on the water surface.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018	Page 4 of 10	
Version # 02	Print Date: 02-13-2018	
Environmental precautions	Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.	
7. HANDLING AND STOR	AGE	
Precautions for safe handling	Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.	
Conditions for safe storage, including any incompatibilities	Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.	

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection measures, suc Eye/face protection	<b>h as personal protective equipment</b> Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection Hand protection	Chemical resistant gloves.
Other	Use of an impervious apron is recommended.
Respiratory protection	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Keep away from food and drink. 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	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	305.6 °F (152 °C)
Flash point	109.0 °F (42.8 °C) Closed Cup
Evaporation rate	Not available.



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018 Version # 02 Page 5 of 10 Print Date: 02-13-2018

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	4.01 mm Hg at 25 °C
Vapor density	3.7
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
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.
Molecular formula	C6H8N2
Molecular weight	108.14 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.95 at 25 °C

#### **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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products if stored and handled as indicated.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018 Version # 02

**Bioaccumulative potential** 

Other adverse effects

Mobility in soil

No data available.

No data available.

Page 6 of 10 Print Date: 02-13-2018

Ingestion	Harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.	
Information on toxicological effects	3	
Acute toxicity	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
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		
IARC Monographs. Overall Ev	valuation of Carcinogenicity	
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		
Not regulated.	(NITD) Depart on Cominerane	
Not listed.	ram (NTP) Report on Carcinogens	
Not listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not available.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
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.	
Persistence and degradability	No data is available on the degradability of this substance.	

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



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018 Version # 02 Page 7 of 10 Print Date: 02-13-2018

#### **13. DISPOSAL CONSIDERATIONS**

Disposal instructions	Do not discharge into drains, water courses or onto the ground. 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	Not established.
Waste from residues / unused products	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**

#### ADN

AD	N	
	UN number	1993
	UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
	Transport hazard class(es)	3
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	No
	Labels required	3
AD	R	
	UN number	1993
	UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
	Transport hazard class(es)	3
	Subsidiary class(es)	-
	Packing group	III
	Environmental hazards	No
	Labels required	3
RIE	)	
	UN number	1993
	UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
	Transport hazard class(es)	3
	Subsidiary class(es)	-
	Packing Group	III
	Environmental Hazards	No
	Labels required	3
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
DO	Т	
BU	LK	
	UN number	1993
	Proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
	Hazard class	3
	Packing group	III



## 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018 Version # 02 Page 8 of 10 Print Date: 02-13-2018

Environmental hazards	
Marine pollutant	No
Packaging exceptions	150
Packaging bulk	242
Labels required	3
DOT	
NON-BULK	
Not regulated as dangerous g	oods.
ΙΑΤΑ	
UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	III
Environmental hazards	No
Labels required	3
IMDG	
UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHYL-2 PYRAZINE)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	III
Environmental hazards	
Marine pollutant	No
Labels required	3
Transport in bulk according	Not applicable.
to Annex II of MARPOL	
73/78 and the IBC Code	

ADN; ADR; DOT BULK; IATA; IMDG; RID



#### **15. REGULATORY INFORMATION**

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

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

**US federal regulations** 



# 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018	
Version # 02	

Page 9 of 10 Print Date: 02-13-2018

SARA 304 Emergency release	se notification	
Not regulated.		
US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)	
Not available.		
	l Substances (29 CFR 1910.1001-1052)	
Not regulated.		
	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
Superfund Amendments and Rea SARA 302 Extremely hazard Not listed.		
	Mar.	
SARA 311/312 Hazardous chemical	Yes	
Classified hazard	Flammable (gases, aerosols, liquids, or solids)	
categories	Acute toxicity (any route of exposure) Skin corrosion or irritation	
	Skin conosion of initiation Serious eye damage or eye irritation	
	Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
-	- Carcinogens & Reproductive Toxicity (CRT): Listed substance	
Not listed.		
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes



## 504893 ETHYL-2 PYRAZINE

Revision Date: 02-13-2018	Page 10 of 10
Version # 02	Print Date: 02-13-2018

Country(s) or region	Inventory name	On inventory (yes/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 Toxic Chemical Substances (TCS)	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	11-17-2015
Revision date	02-13-2018
Version #	02
HMIS® ratings	Health: 3 Flammability: 2 Physical hazard: 0
Disclaimer	Vigon International, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and r
Revision information	This document has undergone significant changes and should be reviewed in its entirety.