

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/10/2021 Revision date: 02/10/2023

Date	011550E. 02/10/2021 Nevision date. 02/10/2023
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: Pinalen Citrus Degreaser
Product code	: 6050541
1.2. Recommended use and restriction	ins on use
Use of the substance/mixture	: Cleansing product
Recommended use	: Washing and cleaning products (including solvent based products)
1.3. Supplier	
Manufacturer AlEn del Norte, S.A. de C.V. Blvd. Gustavo Díaz Ordaz 1000 Los Treviño Santa Catarina, N.L. 66150 - México T 81221000/ 800 424 9300 www.grupoalen.com	
1.4. Emergency telephone number	
Emergency number	: 800.8343.300 24 hrs.
SECTION 2: Hazard(s) identification	bn
2.1. Classification of the substance o	
GHS US classification	
Carcinogenicity Category H350	May cause cancer
1A Hazardous to the aquatic H402 environment - Acute Hazard Category 3 Full text of H statements : see section 16	Harmful to aquatic life
2.2. GHS Label elements, including p GHS US labeling	recautionary statements
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H350 - May cause cancer H402 - Harmful to aquatic life
Precautionary statements (GHS US)	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 - If exposed or concerned: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards which do not resu	It in classification
No additional information available	
2.4. Unknown acute toxicity (GHS US	

2.4. Unknown acute toxicity (GHS US)

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients 3.1. Substances Not applicable 3.2. **Mixtures** Name **Product identifier** % **GHS US classification** Alcohols, C12-16, ethoxylated (CAS-No.) 68551-12-2 2 – 3 Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401 Flam. Liq. 2, H225 Carc. 1A, H350 (CAS-No.) 64-17-5 0.9 – 1.1 ethanol Flam. Liq. 2, H225 2-propanol (CAS-No.) 67-63-0 0.9 – 1.1 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures
4.1. Description of first aid measures
First-aid measures general: If you feel unwell, seek medical advice.First-aid measures after inhalation: If you feel unwell, seek medical advice.First-aid measures after skin contact: When symptoms occur: rinse immediately with plenty of water.First-aid measures after eye contact: Rinse immediately with plenty of water.First-aid measures after ingestion: Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects (acute and delayed)
No additional information available
4.3. Immediate medical attention and special treatment, if necessary
No additional information available
SECTION 5: Fire-fighting measures
5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media : Dry powder.
Unsuitable extinguishing media : dry chemical powder.
5.2. Specific hazards arising from the chemical
Fire hazard : Non combustible.
Explosion hazard : No direct explosion hazard.
5.3. Special protective equipment and precautions for fire-fighters
No additional information available
SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
No additional information available
6.1.2. For emergency responders
No additional information available
6.2. Environmental precautions
Prevent soil and water pollution.
6.3. Methods and material for containment and cleaning up
No additional information available
6.4. Reference to other sections
No additional information available
SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling : Reduce/avoid exposure and/or contact.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures

: Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not applicable		
ethanol (64-17-5)		
ACGIH	Local name	Ethanol
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-propanol (67-63-0))	
ACGIH	Local name	2-Propanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Appearance	: Colorless liquid.
	: Colourless
	: Characteristic odour lemon-like
Odor threshold	: No data available
рН	: 8 (7 – 8.9)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 98 °C
Relative evaporation rate (butyl acetate=1)	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure i No data available Relative vapor density at 20 °C i No data available Relative density i No data available Specific gravity / density i No data available Specific gravity / density i No data available Partition coefficient n-octanol/water (Log Pow) i No data available Partition coefficient n-octanol/water (Log Pow) i No data available Decomposition temperature i No data available Decomposition temperature i No data available Viscosity, kinematic i No data available Viscosity, dynamic i No data available Explosition temperature i No data available Oxidizing properties i No data available Oxidizing information available i No data available Oxidizing properties i No data available Oxidizional information available <th>Flammability (solid, gas)</th> <th>: No data available</th>	Flammability (solid, gas)	: No data available
Relative density : No data available Relative density : No data available Solubiliy : No data available Solubiliy : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, dynamic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Viscosity, dynamic : No data available Explosion properties : No data available Outor information : No data available Outor information : No data available Outor information : No data available Outor information available : Outor information Outor information available : Outor information available Outor information available : Outor information available Outor information available : Outor information available Outor information available : Outor information Outor information available : Outor information		
Relative density : No data available Specific gravity / density : No data available Partition coefficient - octanol/water (Log Pow) : No data available Partition coefficient - octanol/water (Log Pow) : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Outer information : No data available Viscosity, Kinematic : No data available Outer information available : Viscosity, Kinematic : No data available Vi		
Specific gravin/ density : 1 (0.88 - 1.01) gravi Solubiliy : No data available Partition centificant n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limins : No data available Explosion properties : No data available Oxidizing properties : No data available 22. Other information * No data available Section 10 (Stability and reactivity ************************************		
Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, Vinematic : No data available Viscosity, Vinematic : No data available Explosite properties : No data available Explosite properties : No data available Other information : No data available Solubility of properties : No data available Solubility of nazardous reactivity : No data available Solubility of nazardous reactivity : No data available Solubility of hazardous reactivity : No data available Solubility of hazardous reactions : No data available 10. Chemical stability : No data available 10. Reactivity : No data available 10. Chemical stability of hazardous reactions : No data available 10. Chemical stability of hazardous reactions : No data available 10. Chemical stability of hazardous reactions : No data available 10. Chemazardous decomposition products : No c		
Partition coefficient n-octanol/water (Log Pow) i No data available Auto-ignition temperature i No data available Decomposition temperature i No data available Viscosity, kinematic i No data available Viscosity, kinematic i No data available Stocisity dynamic i No data available Oxidizing properties i No data available Oxidizing information available i No data available Stocisity No data available I Oxidizing information available I No data available Stocisity No data available I Oxidizing information available I I Oxidizity Viscosity I I Vis dational information available I I I Oxidizity I I I I Vis dational information available I I I I ontormation available I I I Oxiditoxidi (formation available I		
Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosite properties : No data available Codizing properties : No data available Oddizing properties : No data available Sector of the information No data available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information available Sector of the information	-	
Decomposition femperature : No data available Viscosity, Kinematic : No data available Viscosity, Kinematic : No data available Explosion limits : No data available Conduct properties : No data available Oxidaria properties : No data available Conduct properties : No data available Statis available : No data available Conduct properties : No data available Conduct propertis : No data available		
Viscosily, kinematic : No data available Viscosily, dynamic : No data available Explosion limits : No data available Explosion properties : No data available Other information : Viscosily, dynamic : No data available 2. Other information : Viscosily, dynamic : No data available SECTION 102, Stability and reactivity : Viscosily, dynamic : No data available 0.1. Reactivity : Viscosily, dynamic : No data available 10.2. Chemical stability : Viscosily, dynamic : No data available 10.3. Possibility of hazardous reactions : No additional information available : 10.4. Conditions to available : 10.5. Incompatible materials : Vis additional information available : 10.6. Hazardous decomposition products : Vis additional information available : 10.6. Information on toxicological information : Vis additional information available : 10.5. Incorological information :	o	
Viscosily, dynamic : No data available Explosive properties : No data available Scholsive properties : No data available Oxidizing properties : No data available Condizing properties : No data available Condizing properties : No data available Condizing information available Conditional information available Co		
Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available Oxidizing properties : No data available SECTION 10: Stability and reactivity 0.1. Reactivity 0.2. Chemical stability 0.3. Possibility of hazardous reactions 0.4 additional information available 0.3. Possibility of hazardous reactions 0.5. Additional information available 0.6. Hazardous reactions 0.6. Hazardous decomposition products 0.6. Hazardous decomposition products 0.6. Hazardous decomposition products 0.7. Chemical stability 1.6. Information available 1.6. Information available 1.6. Information available 1.6. Hazardous decomposition products 0.6. Additional information available 1.6. Hazardous decomposition products 1.6. Information on toxicological information 1.1. Information on toxicological information 1.1. Information on toxicological fifets Acute toxicity (oral) : Not classified Acute toxicity (inhalation) : Not classified 1.1. Information and the stability : Not classified Acute toxicity (inhalation) : Not classified 1.2. So oral rat : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So foral rat : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body weight (DECD 402, 4 h, Rat, Male / female, Experimental 1.2. So (ran) : 10740 mg/kg body wei	-	
Explosive properties : No data available Oxidizing properties : No data available Statistic properties : No classified Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (dermal rabbit : So Oral rat : 1250 (S00 - 2000) mg/kg <		: No data available
Oddzing properties : No data available Other information Stability and reactivity 00.1 Reactivity No additional information available Stability and reactivity 00.1 Reactivity No additional information available Stability 0.2 Chemical stability No additional information available Stability 0.3 Possibility of hazardous reactions No additional information available Stability 0.4 Conditions to avoid No additional information available Stability 0.5 Incompatible materials No additional information available Stability 0.6. Hazardous decomposition products No additional information available Stability Sectron 11: Toxicological information Stability 11.1 Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (oral) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Stop (S00 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight (OECD 401: Acute	Explosion limits	: No data available
2. Other information No additional information available SECTION 10: Stability and reactivity 0.1. Reactivity No additional information available 0.2. Chemical stability No additional information available 0.3. Possibility of hazardous reactions No additional information available 0.4. Conditions to avoid No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 10.6. Hazardous decomposition products No additional information available 10.6. Hazardous decomposition products No additional information available Sectron 11: Toxicological effects Acute toxicity (dermal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (aria) : 5000 mg/kg body weight ethanol (64-17-5) : 10740 mg/kg body weight (DECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) L	Explosive properties	: No data available
No additional information available SECTION 10: Stability and reactivity No additional information available 10.2. Chemical stability No additional information available 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 10.7. Information on toxicological effects 10.8. Acute toxicity (oral) 10.9. Not classified 10.9. Not classified 10.9. Stability of a stability 10.9. Stability of	Oxidizing properties	: No data available
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 0.2. Chemical stability No additional information available 0.3. Possibility of hazardous reactions No additional information available 0.4. Conditions to avoid No additional information available 0.5. Incompatible materials No additional information available 0.6. Hazardous decomposition products No additional information available DECETION 11: Toxicological information 11. Information on toxicological effects Acute toxicity (ranl) : Not classified Acute toxicity (rinhaltion) : Not classified <td>0.2. Other information</td> <td></td>	0.2. Other information	
0.1. Reactivity Vo additional information available	lo additional information available	
No additional information available 10.2. Chemical stability Vo additional information available 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 10.6. Hazardous decomposition products No additional information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (anal) : Not classified Acute toxicity (anal information) : Not classified Ib50 oral rat = 1250 (500 – 2000) mg/kg ATE US (oral) : 500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit : 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) </td <td>SECTION 10: Stability and reactivity</td> <td></td>	SECTION 10: Stability and reactivity	
0.2. Chemical stability No additional information available	I0.1. Reactivity	
No additional information available 0.3. Possibility of hazardous reactions No additional information available 0.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 10.6. Hazardous decomposition products No additional information available 5ECTION 11: Toxicological information 11. Information on toxicological effects Acute toxicity (ofemal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified LD50 oral rat \$ 1250 (500 - 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (6417-5) I LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Inhalation) ATE US (or	No additional information available	
No additional information available 0.3. Possibility of hazardous reactions No additional information available 0.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 10.6. Hazardous decomposition products No additional information available 5ECTION 11: Toxicological information 11. Information on toxicological effects Acute toxicity (ofemal) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified LD50 oral rat \$ 1250 (500 - 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (6417-5) I LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Inhalation) ATE US (or	10.2. Chemical stability	
No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 20.6. Hazardous decomposition products No additional information available 20.7. Hazardous decomposition products No additional information on toxicological information 11. Information on toxicological effects Acute toxicity (oral) Acute toxicity (inhalation) ix Not classified ID50 oral rat ix Not classified ID50 oral rat ID50 oral rat ID50 dermal rabbit ix Not classified ID50 dermal rabbit ix Id 000 mg/kg body weight (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Oral, 14 day(s)) ID50 dermal rabbit ID50	No additional information available	
No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available 20.6. Hazardous decomposition products No additional information available 20.7. Hazardous decomposition products No additional information on toxicological information 11. Information on toxicological effects Acute toxicity (oral) Acute toxicity (inhalation) ix Not classified ID50 oral rat ix Not classified ID50 oral rat ID50 oral rat ID50 dermal rabbit ix Not classified ID50 dermal rabbit ix Id 000 mg/kg body weight (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Oral, 14 day(s)) ID50 dermal rabbit ID50	10.2 Possibility of bazardays reactions	
0.4. Conditions to available 0.5. Incompatible materials No additional information available 0.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information 1.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (ormal) : Not classified Acute toxicity (inhalation) : Not classified LD50 oral rat = 1250 (500 - 2000) mg/kg LD50 oral rat : 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dormal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LD50 doral rat : 10740 mg/kg body weight (Equivalent or sim		
No additional information available 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information 11. Information on toxicological effects Acute toxicity (oral) Acute toxicity (ormal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (anal) : Soot grave LD50 oral rat * 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight (Equivalent		
0.5. Incompatible materials Vo additional information available 0.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information No additional information available SECTION 11: Toxicological information No additional information on toxicological effects Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Actobols, C12-16, ethoxylated (68551-12-2) LD50 oral rat ~ 1250 (500 – 2000) mg/kg LD50 oral rat ~ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s		
No additional information available O.6. Hazardous decomposition products No additional information available ECTION 11: Toxicological information I.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified	No additional information available	
0.6. Hazardous decomposition products No additional information available SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified LDS0 oral rat \$ 250 (500 - 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) ED50 oral rat LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LCS0 Inhalation - Rat 117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))	0.5. Incompatible materials	
No additional information available SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (inhalation) : Not classified LD50 oral rat * 1250 (500 – 2000) mg/kg LD50 oral rat : 500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit : 10740 mg/kg (Rabbit, Literature study, Dermal) LCS0 Inhalation - Rat : 1177 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) : 10740 mg/kg body weight 2-propanol (67-63-0) : 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 dady(s)) LD50 oral rat	No additional information available	
SECTION 11: Toxicological information 11. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Acter US (oral) : Not classified ethanol (64-17-5) : D00 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 oral rat : 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat : 117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) : 10740 mg/kg body weight 2-propanol (67-63-0) : 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit	10.6. Hazardous decomposition products	
11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Atter US (oral) : S00 mg/kg body weight ethanol (64-17-5) : 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat : 117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) : 10740 mg/kg body weight 2-propanol (67-63-0) : 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit : 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental 14 day(s))	No additional information available	
11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Atter US (oral) : S00 mg/kg body weight ethanol (64-17-5) : 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat : 117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) : 10740 mg/kg body weight 2-propanol (67-63-0) : 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit : 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental 14 day(s))	SECTION 11: Toxicological informatio	n
Acute toxicity (oral) : Not classified Acute toxicity (inhalation) : Not classified Accohols, C12-16, ethoxylated (68551-12-2) ID50 oral rat LD50 oral rat ≈ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) ID50 oral rat LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental		
Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Alcohols, C12-16, ethoxylated (68551-12-2) LD50 oral rat ≈ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))	Ŭ	· Not classified
Acute toxicity (inhalation) : Not classified Alcohols, C12-16, ethoxylated (68551-12-2) LD50 oral rat ≈ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Oral, 14 day(s))		
Alcohols, C12-16, ethoxylated (68551-12-2) LD50 oral rat ≈ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Oral, 14 day(s))		
LD50 oral rat ≈ 1250 (500 – 2000) mg/kg ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	, ,	
ATE US (oral) 500 mg/kg body weight ethanol (64-17-5) 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental		$\approx 1250 (500 - 2000) mg/kg$
ethanol (64-17-5) LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental		
LD50 oral rat 10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental		
value, Oral) value, Oral) LD50 dermal rabbit > 16000 mg/kg (Rabbit, Literature study, Dermal) LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental		10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental
LC50 Inhalation - Rat 117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat LD50 dermal rabbit 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))		
value, Inhalation) ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	LD50 dermal rabbit	
ATE US (oral) 10740 mg/kg body weight 2-propanol (67-63-0) 10740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	LC50 Inhalation - Rat	
LD50 oral rat 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	ATE US (oral)	
14 day(s)) LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	2-propanol (67-63-0)	
LD50 dermal rabbit 16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental	LD50 oral rat	
	LD50 dermal rabbit	16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-propanol (67-63-0)	
LC50 Inhalation - Rat [ppm]	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	16400 mg/kg body weight
Skin corrosion/irritation	: Not classified
	pH: 8 (7 – 8.9)
Serious eye damage/irritation	: Not classified
	pH: 8 (7 – 8.9)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
2-propanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
2-propanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

E

Aspiration hazard

Viscosity, kinematic

Alcohols, C12-16, ethoxylated (68551-12-2)	
LC50 fish 1	≈ 5 (1 – 10) mg/l
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
2-propanol (67-63-0)	
LC50 fish 1	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Lethal)

12.2. Persistence and degradability

Biodegradable in the soil. Readily biodegradable in water.
0.8 – 0.967 g O ₂ /g substance
1.7 g O ₂ /g substance
2.1 g O ₂ /g substance
0.43
Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
1.19 g O ₂ /g substance
2.23 g O ₂ /g substance

: Not classified

: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-propanol (67-63-0)	
ThOD	2.4 g O ₂ /g substance

12.3. Bioaccumulative potential

ethanol (64-17-5)		
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)	
Partition coefficient n-octanol/water (Log Pow)	-0.31 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative.	
2-propanol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

ethanol (64-17-5)		
Surface tension	0.022 N/m (20 °C)	
Ecology - soil	Highly mobile in soil.	
2-propanol (67-63-0)		
Surface tension	0.021 N/m (25 °C)	
Partition coefficient n-octanol/water (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Other adverse effects

Pinalen Citrus Degreaser	
Alcohols, C12-16, ethoxylated (68551-12-2)	
ethanol (64-17-5)	
2-propanol (67-63-0)	

Other information

: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1. US Federal regulations	
Alcohols, C12-16, ethoxylated (68551-12-2)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
ethanol (64-17-5)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
2-propanol (67-63-0)	
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United Stat	

15.2. International regulations

CANADA

Alcohols, C12-16, ethoxylated (68551-12-2)	
Listed on the Canadian DSL (Domestic Substances List)	
ethanol (64-17-5)	
Listed on the Canadian DSL (Domestic Substances List)	
2-propanol (67-63-0)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 02/10/2023

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H401	Toxic to aquatic life
H402	Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.