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**SECTION 1. IDENTIFICATION**

Product name : Vitamin A D3 E Liquid  
Product part number : BV015

**Manufacturer or supplier's details**

Company name of supplier : Clear View Enterprises, LLC  
Address : 451 Agnes Drive  
Tontitown, AR 72770  
Telephone : 866-361-4689  
Emergency telephone number : ChemTel 888-255-3924 (Acct# MIS005177)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 3  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Reproductive toxicity : Category 1B

**GHS label elements**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P305 + P351 + P338 + P310 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.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Women of childbearing age must avoid any overexposure.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Brief description of the product : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
retinyl propionate	7069-42-3	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3	>= 5 - < 10
propan-1-ol	71-23-8	>= 5 - < 10
ethoxyquin	91-53-2	>= 5 - < 10
cholecalciferol	67-97-0	>= 0.1 - < 1

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
 Show this safety data sheet to the doctor in attendance.  
 After any accidental exposure women should seek medical advice from a physician.

If inhaled : Move to fresh air.  
 Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
 Wash off with soap and plenty of water.  
 If symptoms persist, call a physician.

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In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	: No specific symptoms known.
Notes to physician	: Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire-fighting	: None known.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use water spray to cool unopened containers.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Prevent product from entering drains.
Methods and materials for	: Contain spillage, and then collect with non-combustible ab-

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containment and cleaning up : sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.  
Take necessary action to avoid static electricity discharge.  
Avoid formation of aerosol.

Advice on safe handling : Avoid exposure - obtain special instructions before use.  
For personal protection see section 8.  
To avoid spills during handling keep bottle on a metal tray.  
Container may be opened only under exhaust ventilation hood.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : No smoking.  
Keep container tightly closed and dry.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
retinyl propionate	7069-42-3	TWA	0.06 mg/m <sup>3</sup>	DSM Internal Limit
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3	TWA (aerosol)	10 mg/m <sup>3</sup>	US WEEL
propan-1-ol	71-23-8	TWA	100 ppm	ACGIH
		TWA	200 ppm 500 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 ppm 500 mg/m <sup>3</sup>	OSHA P0
		STEL	250 ppm 625 mg/m <sup>3</sup>	OSHA P0
		TWA	200 ppm 500 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 625 mg/m <sup>3</sup>	NIOSH REL
cholecalciferol	67-97-0	TWA	0.005 mg/m <sup>3</sup>	DSM Internal Limit

### Hazardous components without workplace control parameters

Components	CAS-No.
ethoxyquin	91-53-2

### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

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Material	:	for example nitrile rubber
Remarks	:	Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves. Solvent-resistant gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Safety glasses with side-shields Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	:	liquid
Odour	:	No information available.
Odour Threshold	:	No information available.
pH	:	No data available
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	108.0 °F (42.2 °C)
Evaporation rate	:	not determined
Lower explosion limit	:	not determined
Upper explosion limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	Not applicable
Density	:	not determined
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Ignition temperature	:	not determined
Thermal decomposition	:	No data available
Viscosity, dynamic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### Other information

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No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Possible incompatibility with materials listed under section 10.5.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure	:	Skin Absorption
Acute oral toxicity	:	Acute toxicity estimate : 4,544 mg/kg (Calculation method)
Acute inhalation toxicity	:	Acute toxicity estimate : 56.29 mg/l (Calculation method)
Acute dermal toxicity	:	Acute toxicity estimate : > 5,000 mg/kg (Calculation method)
Skin irritation	:	May cause skin irritation and/or dermatitis.
Eye irritation	:	May irritate eyes.
Sensitisation retinyl propionate	:	Did not cause sensitisation on laboratory animals. (Guinea pig, Maximisation Test, OECD Test Guideline 406)  positive photoallergenic skin reaction (Guinea pig) The effect is probably caused by degradation products or by decomposition products.
Genotoxicity in vitro retinyl propionate	:	not mutagenic, not genotoxic (Various test systems)
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.- hydroxy-	:	not mutagenic (Ames test, OECD Test Guideline 471)
Genotoxicity in vivo cholecalciferol	:	not genotoxic (Rat, Bone marrow, Mutagenicity (micronucleus test))

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Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Teratogenicity	
retinyl propionate	: Teratogenic embryotoxic
cholecalciferol	: May lead to malformations at dose levels that cause maternal toxicity. NOAEL: 0.0095 mg/kg bw/d (Rabbit female, OECD Test Guideline 414)
STOT - single exposure (Acute exposure)	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
cholecalciferol	: NOAEL (Oral, Rat) : 0.06 mg/kg bw/d Sub-chronic toxicity study (90-day) (OECD Test Guideline 408)
Experience with human exposure	
retinyl propionate	: RDA (Recommended Daily Allowance) 0.8 mg pure vitamin A (retinol) per day established for men RDA (Recommended Daily Allowance) ca. 0.7 mg pure vitamin A (retinol) per day established for women
cholecalciferol	: RDA (Recommended Daily Allowance) 0.005 - 0.015 mg/day
Experience with human exposure: Ingestion	
retinyl propionate	: Acute overdose produces the following symptoms: Headache, Irritability, Tiredness, Drowsiness, Nausea, Vomiting, Signs of increased intracranial pressure, Generalized desquamation of the skin (after ca. 24 hours)
cholecalciferol	: Acute overdose produces the following symptoms: Nausea, Vomiting, Headache, Weakness, Abdominal pain, Dry mouth, Metallic taste, Loss of appetite
Further information	: May cause irritation of respiratory tract. Solvents may degrease the skin.
Aspiration toxicity	: No aspiration toxicity classification

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity**

## Toxicity to fish

Poly(oxy-1,2-ethanediyl),  
.alpha.-hydro-.omega.-  
hydroxy- : Cyprinus carpio (Carp)  
LC50 (96 h) > 100 mg/l  
(OECD Test Guideline 203)

## Toxicity to daphnia and other aquatic invertebrates

retinyl propionate : Daphnia magna (Water flea)  
EC50 (48 h) 6.8 mg/l  
(OECD Test Guideline 202)  
: EC0 (48 h) 1.8 mg/l

Poly(oxy-1,2-ethanediyl),  
.alpha.-hydro-.omega.-  
hydroxy- : Daphnia magna (Water flea)  
EC50 (48 h) > 100 mg/l  
(OECD Test Guideline 202)

ethoxyquin : Crustaceans  
EC50 (48 h) 2 mg/l

## Toxicity to algae

retinyl propionate : Desmodesmus subspicatus (green algae)  
EbC50 (72 h) 9.1 mg/l  
(nominal concentration)  
(OECD Test Guideline 201)  
: ErC50 (72 h) 24.6 mg/l  
(nominal concentration)

ethoxyquin : Pseudokirchneriella subcapitata (green algae)  
EC50 (72 h) 6.1 mg/l  
(OECD Test Guideline 201)  
: Pseudokirchneriella subcapitata (green algae)  
NOEC (72 h) 2.3 mg/l  
(OECD Test Guideline 201)

## Toxicity to bacteria

retinyl propionate : activated sludge  
Concentration of the substance 22.9 mg/l  
No inhibition was observed under the biodegradation test con-  
ditions.  
(OECD Test Guideline 301B)

No data is available on the product itself.

**Persistence and degradability**

## Biodegradability

retinyl propionate : Not readily biodegradable.  
32 % (29 d)  
(OECD Test Guideline 301B)

Poly(oxy-1,2-ethanediyl),  
.alpha.-hydro-.omega.-  
hydroxy- : Readily biodegradable.  
> 70 % (21 d)  
(OECD Test Guideline 301A)



n-propanol	:	Readily biodegradable. 75 % (20 d)
ethoxyquin	:	Not readily biodegradable.
cholecalciferol	:	Not readily biodegradable. <= 7 % (28 d) (OECD Test Guideline 301C)

No data is available on the product itself.

#### Bioaccumulative potential

Bioaccumulation	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable

#### Mobility in soil

Distribution among environmental compartments	:	No data available
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#### Other adverse effects

Regulation	:	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	:	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues	:	User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.  Discharge into the environment must be avoided. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Do not burn, or use a cutting torch on, the empty drum. Dispose of as unused product. Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

UNRTDG

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(n-propanol)  
Class : 3  
Packing group : III  
Labels : 3

**IATA-DGR**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(n-propanol)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(n-propanol)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number : NA 1993  
Proper shipping name : Combustible liquid, n.o.s.  
(n-propanol)  
Class : CBL  
Packing group : III  
Labels : NONE  
ERG Code : 128  
Marine pollutant : no  
General advice : 49CFR: not regulated as a dangerous good in non-bulk packaging

Remarks : Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, then the product must be shipped as a flammable liquid.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.- hydroxy- propan-1-ol	25322-68-3 71-23-8	>= 5 - < 10 % >= 5 - < 10 %
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**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

propan-1-ol	71-23-8
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**Pennsylvania Right To Know**

3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-	7695-91-2
benzopyran-6-yl acetate	
Polyoxyethylene monooleate	9004-96-0
retinyl propionate	7069-42-3
polyoxyethylene sorbitan monooleate	9005-65-6
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3
propan-1-ol	71-23-8
ethoxyquin	91-53-2

**California List of Hazardous Substances**

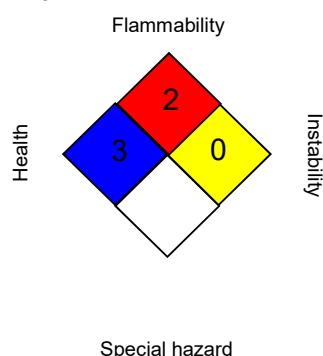
propan-1-ol

71-23-8

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

AiIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECL - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and

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Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative  
ACGIH = American Conference of Governmental Industrial Hygienists. CFR = Code of Federal Regulations. EPA = Environmental Protection Agency. NIOSH = National Institute of Occupational Safety and Health. OSHA = Occupational Safety and Health Administration. STEL = Short term exposure limit. TLV = Threshold Limit Value. TLV-C = Ceiling Limit Value. TWA = Time Weighted Average.

Revision Date : 04/18/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.