	RED CONCENTRATE			UNITED INITIATORS		
Material no. Specification <b>186070</b> Order Number		Version Revision date Print Date Page	1.0 / US 03/02/2015 04/13/2015 1 / 16	driving your success		
۱.	Identification					
 I.1.	Product identifier					
	Trade name	R-5 RED CONCEN	TRATE			
.2.	Recommended use of the	ne chemical and restri	ctions on use			
	Relevant applications identified	Industrial Use				
1.3.	Details of the supplier o	f the safety data shee	t			
	Company	United Initiators, Inc 334 Phillips 311 Rd. Helena, AR 72342-9 USA				
	Telephone	870-572-2935				
	Telefax	870-572-1416				
	Email address	Cs-initiators.nafta@	united-in.com			
1.4.	24 HOUR EMERGENCY TELEPHONE NUMBERS:					
	CHEMTREC - US & CANADA:	800-424-9300				
	CHEMTREC INTERNATIONAL:	+1 703-527-3887 <b>(c</b>	ollect calls accepted)			
	Product Regulatory	800-231-2702				
2.	Hazards identification					
2.1.	Classification of the sub Classification according to R		200			
	Flammable liquids Skin irritation Eye irritation Reproductive toxicity Specific target organ toxicity (Respiratory system)		Category 3 Category 2 Category 2A Category 2 Category 3	H226 H315 H319 H361 H335		
	Specific target organ toxicity Aspiration hazard Acute aquatic toxicity	- repeated exposure	Category 2 Category 1 Category 2	H373 H304 H401		

#### 2.2. Label elements

Statutory basis

Classification according to Regulation 29CFR 1910.1200

- hazard-defining component(s) (GHS)2-Naphthalenol ((phenylazo) phenyl) azo alkyl derivatives
- Xylene
- ethylbenzene

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Symbol(s)		!>	
Signal word	Danger	$\mathbf{\vee}$	
Hazard statement	H226 - Flammable liquid and v H304 - May be fatal if swallowd H315 - Causes skin irritation. H319 - Causes serious eye irri H335 - May cause respiratory H361 - Suspected of damaging H373 - May cause damage to H401 - Toxic to aquatic life.	ed and enters airways. tation. irritation. g fertility or the unborn o	
Precautionary statement: Prevention	P201 - Obtain special instruction P202 - Do not handle until all se P210 - Keep away from heat/se P233 - Keep container tightly of P240 - Ground/bond container P241 - Use explosion-proof ele P242 - Use only non-sparking P243 - Take precautionary me P260 - Do not breathe dust/ fu P264 - Wash skin thoroughly a P271 - Use only outdoors or in P273 - Avoid release to the en P280 - Wear protective gloves P281 - Use personal protective	safety precautions have parks/open flames/hot s closed. and receiving equipme ectrical/ ventilating/ light tools. asures against static dia me/ gas/ mist/ vapours/ after handling. a well-ventilated area. vironment. / eye protection/ face pr	surfaces No smoking. nt. ing/ equipment. scharge. spray. rotection.
Precautionary statement: Reaction	<ul> <li>P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice/ attention.</li> <li>P331 - Do NOT induce vomiting.</li> <li>P332 + P313 - If skin irritation occurs: Get medical advice/ attention.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice/ attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> <li>P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> </ul>		
Precautionary statement:P403 + P233 - Store in a well-ventilated place. Keep container tightlyStorageP403 + P235 - Store in a well-ventilated place. Keep cool.P405 - Store locked up.			
Precautionary statement: Disposal	P501 - Dispose of contents/ cc	ontainer to an approved	waste disposal plant.

#### 2.3. Other hazards

None known.

#### 3. Composition/information on ingredients

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aterial no. Decification 186070 rder Number	Version Revision date Print Date Page	1.0 / US 03/02/2015 04/13/2015 3 / 16	UNITED INITIATOR
. Substances Not applicable . Mixtures			
Dimethyl phthalate	45%		
CAS-No. 131-11-3 Acute Tox. 4 (Inhalation: vapo	urs)		Category 4
• 2-Naphthalenol ((phenyl	azo) phenyl) azo alkyl de	rivatives >= 30%	
CAS-No. 92257-31-3 Reproductive toxicity			Category 2
• Xylene 19%			
CAS-No. 1330-20-7 Flammable liquids Skin irritation Eye irritation Specific target organ toxicity - Specific target organ toxicity - Aspiration hazard Acute aquatic toxicity		system)	Category 3 Category 2 Category 2A Category 3 Category 2 Category 1 Category 1
ethylbenzene	3.5%	)	
CAS-No. 100-41-4 Flammable liquids Acute toxicity (Inhalation) Skin irritation Eye irritation Specific target organ toxicity - Specific target organ toxicity - Aspiration hazard Acute aquatic toxicity Chronic aquatic toxicity		system)	Category 2 Category 4 Category 2 Category 2A Category 3 Category 2 Category 1 Category 2 Category 3
• 1,3-Benzenediol, 2,4-bis	[(alkylphenyl) azo-] <= 3%	6	
CAS-No. 29190-28-1 Eye irritation			Category 2A

#### 4. First aid measures

#### 4.1. Description of first aid measures

#### General advice

Take off contaminated clothing immediately. Pay attention to self-protection. Move out of dangerous area. Keep warm, position comfortably, and cover well. Do not leave affected persons unattended.

#### Inhalation

Remove to fresh air.

If feeling unwell seek medical advice.

Place patients at risk of losing consciousness in stabilized lateral position; artificial respiration as required Monitor breathing, seek medical advice immediately.

#### Skin contact

Wash skin thoroughly with soap and water or use recognized skin cleanser. Consult a doctor in the event of permanent skin irritation.

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#### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. See an eye specialist immediately.

#### Ingestion

Do not induce vomiting and seek medical advice immediately. Keep respiratory tract clear.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### Symptoms

Inhalation may provoke the following symptoms: headache Drowsiness Daze unconsciousness Dry skin.

## **4.3.** Indication of any immediate medical attention and special treatment needed Continue with first aid measures.

Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

#### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:foam, water spray, CO2, dry powderUnsuitable extinguishing media:High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Under certain fire conditions, traces of other toxic products may occur. Cool closed containers exposed to fire with water spray.

Closed container may rupture if strongly heated.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

Containers exposed to heat (fire) may build up pressure. Cool by splashing with water. Also keep emptied containers away from sources of heat and ignition. Have ready/wear respiratory protection equipment.

#### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation. Keep away from sources of ignition - No smoking.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically or with an absorbent material. Fill into marked, sealable containers. To be disposed of in compliance with existing regulations.

Suitable binder: sand, diatomaceous earth, universal absorbent

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#### Additional advice

Assure sufficient ventilation. Vapours may form explosive mixtures with air.

Remove sources of ignition and ventilate area. Run off may create fire or explosion hazard in sewer.

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

Provide good ventilation or extraction. Avoid contact with skin, eyes and clothing. All metal parts of the mixing and processing equipment must be earthed. Do not empty into drains. Do not breathe in vapours, aerosols, sprays. Wash hands before breaks and at the end of workday. Remove contaminated or saturated clothing. Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation.

Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

Wear personal protective equipment; see section 8.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

#### Storage

Keep containers tightly closed in a cool, well-ventilated place.

#### Storage stability

Stable under recommended storage conditions.

#### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Dimethyl phthalate				
CAS-No. Control parameters	131-11-3 5 mg/m3	Time Weighted Average (TWA):(ACGIH)		
Control parameters	5 mg/m3	Permissible exposure limit:(OSHA Z1)		
Control parameters	5 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)		

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Xylene		
CAS-No. Control parameters	1330-20-7 100 ppm 435 mg/m3	Permissible exposure limit:(OSHA Z1)
Control parameters	100 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	150 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	100 ppm 435 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	300 ppm	Ceiling Limit Value:(US CA OEL)
Control parameters	150 ppm 655 mg/m3	Short Term Exposure Limit (STEL):(US CA OEL)
• ethylbenzene		
CAS-No. Control parameters	100-41-4 20 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	100 ppm 435 mg/m3	Permissible exposure limit:(OSHA Z1)
Control parameters	5 ppm 22 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	30 ppm 130 mg/m3	Short Term Exposure Limit (STEL):(US CA OEL)

#### 8.2. Exposure controls

#### Engineering measures

Provide good ventilation or extraction.

Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure.

#### 8.3. Personal protective equipment

#### **Respiratory protection**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: Respirator with brown A-type filter

or

wear a self contained respiratory apparatus

Note time limit for wearing respiratory protective equipment.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### Hand protection

The following details refer to information provided by Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, www.kcl.de, which supplies the corresponding protective gloves.

Glove material nitrile rubber (Camatril Velours)

Material thickness0.4 mmBreak through time> 480 min

Method DIN EN 374

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use. Use impermeable gloves.

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#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

#### **Hygiene measures**

Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished.

Avoid clothing from being contaminated with the product. Wash contaminated clothing after use. Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

#### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

0.1.	physical state Colour Form Odour	liquid Intensely red Intensely red Intensely red Intensely red Intensely red
	Odour Threshold	not determined
	рН	Not applicable
	Melting point/range	no data available
	Boiling point/range	138 °C
	Flash point	> 37 °C
	Evaporation rate	9.5
	Flammability (solid, gas)	no data available
	Lower explosion limit	1 %(V)
	Upper explosion limit	7 %(V)
	Vapour pressure	5 mmHg (65 °C)
	Relative vapour density	>1
	Relative density	1.1
	Water solubility	insoluble
	Partition coefficient: n- octanol/water	No data available Not required by safety or application considerations.
	Autoignition temperature	No data available

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Thermal decomposition	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	no data available

#### 9.2. Other information

no data available

#### 10. Stability and reactivity

#### 10.1. Reactivity

Under normal conditions: stable.

#### **10.2. Chemical stability** Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions Possibility of hazardous No dangerous reaction known under conditions of normal use. reactions No dangerous reaction known under conditions of normal use.

- **10.4.** Conditions to avoid Keep away from heat and sources of ignition.
- **10.5.** Incompatible materials oxidizing agents, alkalis., Aluminium
- **10.6. Hazardous decomposition products** Decomposition products in combustion, chemical or thermal decomposition carbon monoxide, carbon dioxide, toxic gases/vapours

#### 11. Toxicological information

#### 11.1. Information on toxicological effects

#### Toxicological information on components Dimethyl phthalate Acute oral toxicity LD50 Oral Rat: 8200 mg/kg

Acute oral toxicity	LD50 Oral Rat: 8200 mg/kg		
Acute inhalation toxicity	LC50 : 10.4 mg/l / 6 h Assessment: H332: Harmful if inhaled.		
Acute dermal toxicity	LD50 Dermal Rat: > 12000 mg/kg		
Skin irritation	No skin irritation		
Eye irritation	No eye irritation		
Sensitization	Not sensitizing.		

#### **2-Naphthalenol ((phenylazo) phenyl) azo alkyl derivatives** Acute oral toxicity LD50 Oral Rat: > 5000 mg/kg

			2
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Skin irritation	No skin irritation		
<b>CMR assessment</b> Toxicity to reproduction	Some evidence of advertexperiments.	rse effects on develo	pment, based on animal
Xylene Acute oral toxicity	LD50 Rat: 3523 mg/kg		
Acute inhalation toxicity	LD50 Rat: 27.5 mg/l / 4	h / vapour	
Acute dermal toxicity	LD50 Rabbit: > 4200 m	g/kg	
Skin irritation	Skin irritation		
Eye irritation	Irritating to eyes.		
Assessment of STOT single exposure	Assessment: The substance or mixture is classified as specific targe organ toxicant, single exposure, category 3 with respiratory tract irritation		
Assessment of STOT repeat exposure	Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.		
Risk of aspiration toxicity	May be fatal if swallowed and enters airways.		
Teratogenicity	some laboratory animal development of the emb	studies were reporte oryo/fetus. These eff	evels of exposure to xylene in ed to have affected the ects were often at levels toxic man exposure has not been
	Adverse Effect Level) teratogenesis:	nally non-toxic doses 2.165 mg/l DECD TG 414	
	some animal studies we the embryo/fetus. Thes mother. The significanc	ere reported to have a e effects were often e of these findings to	evels of exposure to xylene in affected the development of at levels which are toxic to the b human exposure has not o the low levels of xylene
teratogenicity assessment	Potential embryo-foetal	toxicity and teratoge	nicity.
Further information	Overexposure to xylene has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: kidney damage; mild, reversible liver effects; effects on hearing and cardiac sensitization.		
ethylbenzene Acute oral toxicity	LD50 Rat: 3500 mg/kg		
Acute inhalation toxicity	LC50 Rat: 17.6 mg/l / 4	h / vapour	

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Acute dermal toxicity	LD50 Rabbit: 15400 m LD50 Rabbit: 5000 mg			
Skin irritation	Skin irritation			
Eye irritation	Irritating to eyes.	Irritating to eyes.		
Sensitization	Does not cause skin se	Does not cause skin sensitisation.		
Assessment of STOT sin exposure		Assessment: The substance or mixture is classified as specific targe organ toxicant, single exposure, category 3 with respiratory tract irritation		
Assessment of STOT rep exposure		Assessment: The substance or mixture is classified as specific targe organ toxicant, repeated exposure, category 2.		
Risk of aspiration toxicity	May be fatal if swallow	May be fatal if swallowed and enters airways.		
carcinogenicity assessme		Contains a component which is classified as an IARC 2B carcinogen (possibly carcinogenic to humans).		

### 1,3-Benzenediol, 2,4-bis[(alkylphenyl) azo-]

12.	<b>Ecological information</b>	
12.1.	Toxicity Toxicity to fish	no data available
12.2.	Persistence and degrad Biodegradability	ability no data available
12.3.	Bioaccumulative potent Bioaccumulation	ial no data available
12.4.	Mobility in soil Mobility	No data available
12.5.	Other adverse effects Further Information	Do not allow to enter waste water drains, watercourse or soil.

#### 13. Disposal considerations

#### 13.1. Waste treatment methods

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#### Product

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method of disposal. Contact United Initiators for additional information. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

#### **Uncleaned packaging**

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

#### 14. Transport information

#### D.O.T. Road/Rail

<ul> <li>14.1. UN number:</li> <li>14.2. UN proper shipping name:</li> <li>14.3. Transport hazard class(es):</li> <li>14.4. Packing group:</li> </ul>	NA 1993 Combustible Liquid, n.o.s.(Xylene) 3 III
14.5. Environmental hazards (Marine pollutant):	
14.6. Special precautions for user:	No
Air transport ICAO-TI/IATA-DGR 14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: 14.6. Special precautions for user: IATA-C: ERG-Code 3L IATA-P: ERG-Code 3L	UN 1993 Flammable liquid, n.o.s.(Xylene) 3 III  Yes
<ul> <li>Sea transport IMDG-Code/GGVSee (German 14.1. UN number:</li> <li>14.2. UN proper shipping name:</li> <li>14.3. Transport hazard class(es):</li> <li>14.4. Packing group:</li> <li>14.5. Environmental hazards (Marine pollutant):</li> <li>14.6. Special precautions for user:</li> </ul>	UN 1993 FLAMMABLE LIQUID, N.O.S.(Xylene) 3 III 
EmS: 14.7 Transport in bulk according to Appex	F-E,S-E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transportapproval see regulatory information

#### 15. Regulatory information

#### **US Federal Regulations**

#### OSHA

If listed below, chemical specific standards apply to the product or components:

None listed

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#### **Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Dimethyl phthalate
   CAS-No. 131-11-3
- Xylene

1330-20-7

• ethylbenzene

100-41-4

#### **CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

#### • Xylene

CAS-No. 1330-20-7 Reportable Quantity 526 lbs

ethylbenzene
 CAS-No. 100-41-4
 Reportable Quantity 28571 lbs

#### SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard

#### SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Dimethyl phthalate CAS-No. 131-11-3
- Xylene CAS-No. 1330-20-7
- ethylbenzene CAS-No. 100-41-4

#### **Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

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#### **State Regulations**

#### **California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

WARNING! This product contains a chemical known to the State of California to cause cancer.

• ethylbenzene CAS-No. 100-41-4

#### **International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- Europe (EINECS/ELINCS)
- USA (TSCA)
- Canada (NDSL)
- Australia (AICS)
- Japan (MITI)
- Philippines (PICCS)
- China
- Korea
- New Zealand

listed/registered listed/registered not listed/registered not listed/registered listed/registered listed/registered listed/registered listed/registered

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

#### **HMIS Ratings**

Health :	2*
Flammability :	3
Physical Hazard :	0

#### **NFPA Ratings**

Health :	2
Flammability :	3
Reactivity :	0

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#### 16. Other information

#### Further information

Revision date

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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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.

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المعتميط					
Legend	American Chemistry Council				
ACC ACGIH	American Chemistry Council				
ACGIN	American Conference of Governmental Industrial Hygenists Advisory Committee on Sustainability				
ADI	Acceptable Daily Intake				
ASTM	American Society for Testing and Materials				
ATP	Adaptation to Technical Progress				
BCF	Bioconcentration factor				
BOD	Biochemical oxygen demand				
C.C.	closed cup				
CAO	Cargo Aircraft Only				
Carc	Carcinogen				
CAS	Chemical Abstract Services				
CDN	Canada Considian Environmental Protection Act				
CEPA CERCLA	Canadian Environmental Protection Act				
CFR	Comprehensive Environmental Response – Compensation and Liability Act Code of Federal Regulations				
CMR	carcinogenic-mutagenic-toxic for reproduction				
COD	Chemical oxygen demand				
DIN	German Institute for Standardization				
DMEL	Derived minimum effect level				
DNEL	Derived no effect level				
DOT	Department of Transportation				
EC50	half maximal effective concentration				
EPA	Environmental Protection Agency				
ErC50	Reduction of Growth Rate				
ERG FDA	Emergency Response Guide Book				
GHS	Food and Drug Administration Globally Harmonized System of Classification and Labelling of Chemicals (GHS)				
GLP	Good Laboratory Practice				
GMO	Genetic Modified Organism				
HCS	Hazard Communication Standard				
HMIS	Hazardous Materials Identification System				
IARC	International Agency for Research on Cancer				
ΙΑΤΑ	International Air Transport Association				
IBC	Intermediate Bulk Container				
ICAO-TI	International Civil Aviation Organization- Technical Instructions				
	International Council of Chemical Association				
ID IMDG	Identification number				
IUPAC	International Maritime Dangerous Goods International Union of Pure and Applied Chemistry				
ISO	International Organization For Standardization				
LC50	50 % Lethal Concentration				
LD50	50 % Lethal Dose				
L(E)C50	LC50 or EC50				
LOAEL	Lowest observed adverse effect level				
LOEL	Lowest observed effect level				
MARPOL	International Convention for the Prevention of Pollution from Ships				
NFPA	National Fire Protection Association				
NOAEL NOEC	No observed adverse effect level no observed effect concentration				
NOEL	no observed effect level				
0. C.	open cup				
OECD	Organisation for Economic Cooperation and Development				
OEL	Occupational Exposure Limit				
OSHA	Occupational Safety and Health Administration				
PBT	Persistent, bioaccumulative, toxic				
PEC	Predicted effect concentration				
PNEC	Predicted no effect concentration				
RQ	Reportable Quantity				
SDS	Safety Data Sheet				
STOT UN	Specific Target Organ Toxicity United Nations				
vPvB	very persistent, very bioaccumulative				
VOC	volatile organic compounds				

SAFETY DATA SHEET R-5 RED CONCENTRATE				
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