# Safety Data Sheet

# **Miapoxy Gelcoat 53 Series** Date of Preparation: December 1, 2015

Section 1 Chamical Product and Company Identification				
Section 1 Chemical Product and Company Identification				
1 1 Product identifiers	HMIS			
Product name: Mianovy Celcoat 53 Series	<b>H</b> 3			
1 2 Relevant identified uses of the substance or mixture and uses advised against	<b>F</b> 2			
Identified uses: N/A	<b>R</b> 1			
1 3 Details of the supplier of the safety data sheet	PPE			
Freeman Manufacturing and Supply Company	Sec. 8			
1101 Moore Road Avon OH 44011				
Phone $(440)$ 934-1902				
FAY (AAO) 934-7200				
1 4 Emergency telephone number				
Emergency Phone (200) 424 0200				
Emergency Filone (000) 424-9300				
Section 2 Hazards Identification				
2.1 Classification of the substance or mixture				
GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)				
Flammable Liquids, Category 3				
Acute Toxicity, inhalation, Category 4				
Acute Toxicity, oral, Category 5				
2.2 GHS Label elements, including precautionary statements				
Signal word Warning				
Hazard statements				
Flammable liquid and vapor.				
Causes skin irritation.				
Causes eve irritation.				
Harmful if inhaled.				
Harmful if swallowed.				
May cause skin allergic reactions.				
Dust suspected of causing cancer.				
Suspected of damaging the unborn child.				
May cause damage to organs through prolonged exposure.				
Precautionary statements				
Prevention				
Keep away from heat/sparks/open flames/hot surfaces - No smoking				
Keen container tightly closed when not in use				
Do not breathe fumes or vanors				
Wash skin thoroughly after handling				
Do not eat drink or smoke when using this product				
bo not cat, at mik of smoke when using this product.				

### Section 2 Hazards Identification cont.

Use only in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Response If on skin: Remove all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and get medical attention if not feeling well. If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Contaminated work clothing should not removed from the workplace. Storage Store in a well-ventilated place. Keep cool. Disposal Dispose of contents and container to an appropriate waste site in accordance with local and national regulations. 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None.

### Section 3 Composition/Information on Ingredients

### 3.1 Substance

Ingredient Name	CAS Number
Polyester Resin	Proprietary
Styrene Monomer	100-42-5
Methyl Methacrylate	80-62-6
Titanium Dioxide	13463-67-7

### Section 4 First Aid Measures

### 4.1 Description of first aid measures

### If inhaled

Move person into fresh air, give artificial respiration or give oxygen. Call a physician immediately. Risk of pulmonary aspiration in case of serious incident.

#### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes thoroughly with water. If irritation persists, get medical assistance.

#### If swallowed

Do not induce vomiting. Rinse mouth and consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### **4.3 Indication of any immediate medical attention and special treatment needed** No data available.

Section 5 Fire Fighting Measures						
5.1 Extinguishing media						
Suitable extinguishing	media: Use water sprav. alcohol-re	sistant foam. dry chemical or				
carbon dioxide.						
5.2 Special hazards arising fr	om the substance or mixture					
Nature of decompositio	on products not known.					
5.3 Advice for firefighters						
Wear self-contained br	eathing apparatus for firefighting i	f necessary.				
5.4 Further information						
No data available.						
	Section 6 Accidental Release M	easures				
		,				
6.1 Personal precautions, pro	otective equipment and emerger	cy procedures				
Avoid breathing vapors	s, mist or gas. Remove all sources of	rignition. Ventilate area.				
For personal protection	i see section 8.					
6.2 Environmental precautio	6.2 Environmental precautions					
Do not let product enter drains.						
6.3 Methods and materials fo	or containment and cleaning up	n manleine ta ala Kaan in alaan d				
suitable containers for disposal						
suitable containers for disposal.						
Section 7 Handling and Storage						
7 1 Procentions for safe hand	lling					
Use normal precaution	s when handling flammable materi	als. Do not breathe fumes or				
vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation						
7 2 Conditions for safe storage	including any incompatibilitie					
Store at ambient tempe	eratures in closed containers. This	material can catch fire if				
overheated. Keen away from heat snarks and flame Emptied containers may retain						
by critical cu. Neep away from field, sparks, and finite. Empleu containers fildy relation by other						
petroleum wastes.		ues of this product with any other				
Sect	ion 8 Exposure Controls/Person	al Protection				
8.1 Control parameters Components with wor	rkplace control parameters					
Ingradiant		ACCIH				

Ingredient	OS	HA	ACC	GIH
	TWA	STEL	TWA	STEL
Styrene Monomer	50 ppm	100 ppm	50 ppm	100 ppm
Titanium Dioxide	5 mg/m3	15 mg/m3	10 mg/m3	Not estab.
Methyl Methacrylate	100 ppm	Not estab.	50 ppm	100 ppm

### 8.2 Exposure controls

### Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

### Section 8 Exposure Controls/Personal Protection cont.

#### 8.3 Personal protective equipment

### **Eye/face protection**

With product at ambient temperatures, use safety glasses equipped with side shields.

### 8.4 Skin protection

### **Hand Protection**

With product at ambient temperatures, use disposable nitrile gloves.

Contaminated gloves should be replaced.

### **Body Protection**

Prevent skin contact when handling material.

### **8.5 Respiratory Protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

### 8.6 Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

### **8.7 General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

### **Section 9 Physical and Chemical Properties**

### 9.1 Information on basic physical and chemical properties

Appearance	Transparent liquid
Odor	Styrene/aromatic
Odor Threshold	No data available
рН	No data available
Melting Point	No data available
VOC Content	No data available
Initial boiling point & boiling range	No data available
Flash Point (COC)	32°C (89.6°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density (g/cc)	1.2±0.05
Water Solubility	Negligible
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
% Volatile	No data available

#### Section 10 Stability and Reactivity **10.1 Reactivity** No data available **10.2 Chemical stability** Stable under recommended storage conditions. **10.3 Possibility of hazardous reactions** May occur with an exothermic reaction **10.4 Conditions to avoid** Heat, open flames, and improper addition of promoter and/or catalyst. Avoid direct contact of MEKP with accelerator (cobalt, calcium, potassium's salts). **10.5 Incompatible materials** Oxidizing agents, peroxides **10.6 Hazardous decomposition products** Thermal oxidative decomposition can produce organic acids, CO and CO<sub>2</sub>. **Section 11 Toxicological Information 11.1 Information on toxicological effects** Acute Oral toxicity Styrene: LD 50 4.37 g/kg (rat) Acute Inhalation toxicity May cause central nervous system depression causing headache, nausea, vomiting, drowsiness, dizziness, and muscle weakness. High concentrations can lead to convulsions, coma and death **Acute Dermal toxicity** Styrene: LD 50 5g/kg (rabbit) Skin corrosion/irritation May cause lesions to skin Serious eye damage/eye irritation Eye irritant **Respiratory or skin sensitization** A skin sensitizer Germ cell mutagenicity No data available Carcinogenicity IARC Styrene (CAS #100-42-5) is considered a class 2B suspect human carcinogen. Titanium Dioxide (CAS #13463-67-7) is considered a class 2B suspect human carcinogen. Methyl Methacrylate (CAS #80-60-6) is not classifiable as a human carcinogen. ACGIH Styrene is not classifiable as a carcinogen. NTP Styrene is reasonably anticipated to be a human carcinogen. No component of this product present at levels greater than or equal to 0.1% OSHA is identified as a carcinogen or potential carcinogen. **Reproductive toxicity** Not expected to be a hazard Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available **Aspiration hazard** Not expected to be a hazard

	Section 12 Ecological Information					
12.1 To 12.2 Pe 12.3 Bid 12.4 Mo 12.5 Re	12.1 ToxicityNo data available12.2 Persistence and degradabilityNo data available12.3 Bioaccumulative potentialNo data available12.4 Mobility in soilNo data available12.5 Results of PBT & vPvB assessmentNo data available					
	Section 13 Disposal Considerations					
13.1 Dis	13.1 Disposal Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.					
DOT:	DOT: Shipping Name: Resin Solution, Flammable Hazard Class: 3 ID No.: UN 1866 Packing Group: III					
IATA:	IATA: Shipping Name: Resin Solution, Flammable Hazard Class: 3 ID No.: UN 1866 Packing Group: III					
IMDG:	IMDG: Shipping Name: Resin Solution, Flammable Hazard Class: 3 ID No.: UN 1866 Packing Group: III					
	Section 15 Regulatory Information					
<ul> <li>15.1 US Federal Regulations         <ul> <li>RCRA Hazardous Waste Number (40 CFR 261.33): Not listed</li> <li>RCRA Hazardous Waste Classification (40 CFR 261): Not classified</li> <li>CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001</li> <li>SARA 311/312 Codes: Chronic Health Hazard, Fire Hazard</li> <li>SARA Toxic Chemical (40 CFR 372.65): No components were identified</li> <li>TSCA Inventory Status: All ingredients listed on TSCA inventory requirements</li> </ul> </li> <li>15.2 State Regulations         <ul> <li>California Proposition 65: None found</li> </ul> </li> </ul>						
	Materials on the New Jersey Right to Know List: Titanium Dioxide, Styrene, and Methyl Methacrylate Materials on the Pennsylvania Right to Know List: Titanium Dioxide, Styrene, and Methyl					
	Materials on the Pennsylvania Right to Know List: Titanium Dioxide, Styrene, and Methyl Methacrylate					

### **Section 16 Other Information**

### **16.1 Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.







Version 3.0	Revision Date: 12/04/2019	SD 60	S Number: 0000000100	Date of last issue: 08 Date of first issue: 10	3/19/2019 D/04/2016
SECTION	1. IDENTIFICATION				
Prod	luct name	:	NOROX <sup>®</sup> MEKP-9		
<b>Man</b> Com	ufacturer or supplier's (	deta	ils United Initiators, II	nc.	
Addı	ress	:	555 Garden Stree Elyria OH 44035 l	t JSA	
Tele	phone	:	+1-440-323-3112		
Tele	fax	:	+1-440-323-2659		
Eme	rgency telephone	:	CHEMTREC US ( CHEMTREC WOR	24h): RLD (24h):	+1-800-424-9300 +1-703-527-3887
E-ma resp	ail address of person onsible for the SDS	:	cs-initiators.nafta@	@united-in.com	
Rec	ommended use of the c	hem	ical and restrictio	ons on use	

Recommended use : Hardener

#### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids	:	Category 4
Organic peroxides	:	Туре D
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion	:	Category 1B
Serious eye damage	:	Category 1
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 2

### GHS label elements

Hazard pictograms



Signal Word

Danger

:





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Haza	rd Statements	: H227 Combust H242 Heating r H302 + H332 F H314 Causes s H361d Suspec H401 Toxic to a	ible liquid. nay cause a fire. larmful if swallowed or if inhaled. severe skin burns and eye damage. ted of damaging the unborn child. aquatic life.
Preca	utionary Statements	<ul> <li>Prevention:</li> <li>P201 Obtain sp P202 Do not ha and understood P210 Keep awa No smoking.</li> <li>P220 Keep/Sto heavy metal sa materials.</li> <li>P234 Keep onl P261 Avoid bre P264 Wash ski P270 Do not ea P271 Use only P273 Avoid relat P280 Wear pro face protection</li> </ul>	Decial instructions before use. andle until all safety precautions have been read d. ay from heat/sparks/open flames/hot surfaces. are away from clothing/ strong acids, bases, lts and other reducing substances /combustible y in original container. eathing dust/ fume/ gas/ mist/ vapors/ spray. In thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. ease to the environment. bective gloves/ protective clothing/ eye protection/
		P301 + P312 + CENTER/docto P301 + P330 + induce vomiting P303 + P361 + all contaminate P304 + P340 + and keep comf CENTER/docto P305 + P351 + water for sever and easy to do CENTER/docto P308 + P313 If attention. P363 Wash co P370 + P378 Ir foam, dry chem	<ul> <li>P330 IF SWALLOWED: Call a POISON</li> <li>prif you feel unwell. Rinse mouth.</li> <li>P331 IF SWALLOWED: Rinse mouth. Do NOT</li> <li>p353 IF ON SKIN (or hair): Take off immediately</li> <li>d clothing. Rinse skin with water/shower.</li> <li>P310 IF INHALED: Remove person to fresh air</li> <li>ortable for breathing. Immediately call a POISON</li> <li>pr.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present</li> <li>Continue rinsing. Immediately call a POISON</li> <li>pr.</li> <li><sup>2</sup> exposed or concerned: Get medical advice/</li> <li>ntaminated clothing before reuse.</li> <li>n case of fire: Use water spray, alcohol-resistant nical or carbon dioxide to extinguish.</li> </ul>
		Storage: P405 Store loc P410 Protect fr P411 + P235 S 38 °C. Keep co P420 Store aw Disposal: P501 Dispose of	ked up. fom sunlight. store at temperatures not exceeding < 100 °F/ < fol. ay from other materials. of contents/ container to an approved waste dis-

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posal plant.

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Organic Peroxide Liquid mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethyl phthalate	131-11-3	>= 40 - < 45
2-Butanone, peroxide	1338-23-4	>= 30 - < 35
Trimethylpentanediol isobutyrate	6846-50-0	>= 20 - < 25
Butanone	78-93-3	>= 1 - < 5
Hydrogen peroxide	7722-84-1	>= 1 - < 2.5

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.
If inhaled	:	Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Call a physician immediately. If breathed in, move person into fresh air.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty

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			of water and seek Continue rinsing of Remove contact I Protect unharmed Keep eye wide op If eye irritation pe	a medical advice. eyes during transport to hospital. enses. d eye. ben while rinsing. rsists, consult a specialist.
lf s	swallowed	:	Keep respiratory Do NOT induce v Call a physician in Rinse mouth thor	tract clear. omiting. nmediately. oughly with water.
Mo an de	ost important symptoms Id effects, both acute and layed	:	Harmful if swallov Causes serious e Suspected of dan Causes severe bu	ved or if inhaled. ye damage. naging the unborn child. urns.
Pr	otection of first-aiders	:	First Aid respond and use the recor	ers should pay attention to self-protection mended protective clothing
No	otes to physician	:	Treat symptomati	cally and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self- accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
		The product burns violently. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Cool closed containers exposed to fire with water spray.
Specific extinguishing meth- ods	:	Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so.
		Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This

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		must no Fire res be disp Use ex circums	ot be discharg idues and co osed of in acc tinguishing mo stances and th	ed into drains. ntaminated fire extinguishing water must cordance with local regulations. easures that are appropriate to local ne surrounding environment.
Spe for f	cial protective equipment ire-fighters	: Wear s necess Use pe	elf-contained ary. rsonal protect	breathing apparatus for firefighting if ive equipment.
SECTIO	N 6. ACCIDENTAL RELE	ASE MEAS	URES	
Pers tive gen	sonal precautions, protec- equipment and emer- cy procedures	: Use pe Remov Follow equipm Beware concen Never r Treat re conside	rsonal protect e all sources of safe handling ent recomme e of vapors ac trations. Vapor eturn spills in ecovered mate erations".	ive equipment. of ignition. advice and personal protective ndations. cumulating to form explosive ors can accumulate in low areas. original containers for re-use. erial as described in the section "Disposal
Env	ironmental precautions	: Preven Preven If the pr respect	t product from t further leaka oduct contam ive authorities	entering drains. ge or spillage if safe to do so. inates rivers and lakes or drains inform s.
Met con	hods and materials for tainment and cleaning up	: Contac decomp Clear s Suppre jet. To clea materia Soak u Isolate Non-sp Local o disposa employ determ	t with incompa position at or l pills immediat ss (knock dow n the floor an l, use plenty o o with inert at waste and do arking tools s r national reg al of this mate ed in the clea ine which reg	atible substances can cause below SADT. ely. vn) gases/vapors/mists with a water spray d all objects contaminated by this of water. sorbent material. not reuse. hould be used. ulations may apply to releases and rial, as well as those materials and items nup of releases. You will need to ulations are applicable.

### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.
Advice on safe handling	:	Do not swallow.





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				Do not breathe va Avoid contact with Avoid formation o Take precautional Never return any originally removed Provide sufficient Avoid confinement Keep away from h other ignition sour Smoking, eating a application area. Wash thoroughly For personal prote	apors/dust. a skin and eyes. f aerosol. ry measures against static discharges. product to the container from which it was d. air exchange and/or exhaust in work rooms. at. neat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the after handling. ection see section 8. amination.
	Conditi	ons for safe storage	:	Avoid impurities ( Electrical installati the technological Containers which kept upright to pre Store in original co Keep containers to Store in accordan	e.g. rust, dust, ash), risk of decomposition. ions / working materials must comply with safety standards. are opened must be carefully resealed and event leakage. ontainer. ightly closed in a cool, well-ventilated place. ce with the particular national regulations.
	Materia	als to avoid	:	Keep away from so other reducing su	strong acids, bases, heavy metal salts and bstances.
	Recom peratur	mended storage tem- e	:	< 100 °F	
				< 38 °C	
	Further age sta	information on stor- bility	:	No decomposition	n if stored normally.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
dimethyl phthalate	131-11-3	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
2-Butanone, peroxide	1338-23-4	С	0.2 ppm	ACGIH
		С	0.2 ppm	NIOSH REL
			1.5 mg/m3	
		С	0.7 ppm	OSHA P0
			5 mg/m3	
Butanone	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH





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		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
		TWA	1 ppm 1.4 mg/m3	OSHA Z-1
		TWA	1 ppm 1.4 mg/m3	OSHA P0

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

Engineering measures :		Minimize workplace exposure concentrations.
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### Personal protective equipment

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	ABEK-filter

Hand protection

: t	outyl-rubber
: >	>= 480 min
: 0	).5 mm
	: k : > : 0

Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove Wash hands before breaks and at the end of workday.
vo protoction		Tighthy fitting opfoty goggloo

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		Please wear suita protection if there Ensure that eyew to the workstation	ble protective goggles. Also wear face is a splash hazard. ash stations and safety showers are close location.	
:	Skin and body protection	: Select appropriate resistance data a potential.	e protective clothing based on chemical nd an assessment of the local exposure	
Hygiene measures		: Keep away from f When using do no When using do no Wash hands befo the product.	Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.	

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Color	:	colorless
Odor	:	characteristic
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	> 76 °C
Evaporation rate	:	No data available
Flammability (solid, gas)		Not applicable
Self-ignition	:	Not applicable Decomposition
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	> 1
Density	:	1.1 g/cm3
Solubility(ies) Water solubility	:	soluble

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	Partitio octanol	n coefficient: n- /water	:	No data available	
	Self-Ac tion ten	celerating decomposi- nperature (SADT)	:	60 °C SADT-Self Accel temperature at w self-accelerating	erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscosi Visc	ty :osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	not determined	
	Oxidiziı	ng properties	:	The substance of Organic peroxide	r mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reac- tions	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful if swallowed or if inha	aled.
Product:	
Acute oral toxicity	: Acute toxicity estimate: 1,431 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 4.29 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg





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		Method: Calc	ulation method
Con	nponents:		
dime	ethyl phthalate:		
Acut	e oral toxicity	: LD50 (Rat): >	> 5,000 mg/kg
Acut	e inhalation toxicity	: (Rat): > 10.4 Exposure tim Test atmosph Remarks: No	mg/l e: 6 h here: vapor mortality observed at this dose.
Acut	e dermal toxicity	: LD50 (Rabbit	:): > 12,000 mg/kg
2-Bu	itanone. peroxide:		
Acut	e oral toxicity	: Acute toxicity Method: Expo	r estimate: 500 mg/kg ert judgment
Acut	e inhalation toxicity	: Acute toxicity Exposure tim Test atmosph Method: Expo Assessment: short term inl Remarks: Ba	e estimate: 1.5 mg/l e: 4 h here: dust/mist ert judgment The component/mixture is moderately toxic after halation. sed on data from similar materials
Acut	e dermal toxicity	: Acute toxicity Method: Exp	v estimate: 2,500 mg/kg ert judgment
Trim	ethylpentanediol isot	outyrate:	
Acut	e oral toxicity	: LD50 (Rat): > Method: Exp Assessment: icity	• 2,000 mg/kg ert judgment The substance or mixture has no acute oral tox-
Acut	e inhalation toxicity	: LCLo (Rat): > Exposure tim Test atmosph Method: Expo Assessment: tion toxicity Remarks: No	<ul> <li>0.12 mg/l</li> <li>e: 6 h</li> <li>here: dust/mist</li> <li>ert judgment</li> <li>The substance or mixture has no acute inhala-</li> <li>mortality observed at this dose.</li> </ul>
Acut	e dermal toxicity	: LD50 (Guine Method: Exp Assessment: toxicity	a pig): > 2,000 mg/kg ert judgment The substance or mixture has no acute dermal
Buta	inone:		
Acut	e oral toxicity	: LD50 (Rat): 2 Method: OEC	2,193 mg/kg CD Test Guideline 423





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Acute dermal toxicity		:	LD50 (Rabbit): Method: OECI	> 5,000 mg/kg ) Test Guideline 402	
Hydr	ogen peroxide:				
Acute	e oral toxicity	:	LD50 (Rat, ma Method: OECI	le): 1,026 mg/kg ) Test Guideline 401	
Acute	inhalation toxicity	:	LC50 (Rat): > 0.17 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic aft short term inhalation. Remarks: Based on harmonised classification in EU regulati 1272/2008, Annex VI		
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 6,500 mg/kg	
Skin	corrosion/irritation				
Caus	es severe burns.				
Prod	uct:				
Rema	arks	:	Extremely corr	osive and destructive to tissue.	
Com	ponents:				
dime	thyl phthalate:				
Speci	es	:	Rabbit		
Metho	bc	:	Draize Test		
Resu	lt	:	No skin irritatio	n	
2-But	tanone, peroxide:				
Speci	ies	:	Rabbit		
Resu	It	:	Causes burns.		
Trime	ethylpentanediol iso	butvra	ite:		
Speci	ies		Guinea pig		
Expo	sure time	÷	24 h		
Resu	It	:	No skin irritatio	n	
Rema	arks	:	Based on avai	able data, the classification criteria are not met.	
Buta	none:				
Speci	ies	:	Rabbit		
Meth	bc	:	OECD Test Guideline 404		
Resu	It	:	No skin irritation		
Hydr	ogen peroxide:				
Resu	lt -	:	Corrosive after	3 minutes or less of exposure	





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Serio	ous eye damage/eye	irritation	
Caus	ses serious eye dama	ge.	
Prod	luct:		
Rem	arks	: May cause irr	eversible eye damage.
Con	nponents:		
dime	ethyl phthalate:		
Spec	cies	: Rabbit	
Resu	ılt	: No eye irritati	on
Meth	od	: OECD Test G	Guideline 405
2-Bu	tanone, peroxide:		
Resu	ılt	: Irreversible ef	fects on the eye
Trim	ethylpentanediol iso	butyrate:	
Spec	cies	: Rabbit	
Resu	ılt	: No eye irritati	on
Buta	none:		
Spec	cies	: Rabbit	
Resu	ılt .	: Eye irritation	
Meth	od	: OECD Test G	Guideline 405
Hydr	ogen peroxide:		
Resu	ılt	: Irreversible ef	fects on the eye
Resp	piratory or skin sens	itization	
Skin	sensitization		
Not c	classified based on available	ailable information.	
<b>Resp</b> Not c	<b>biratory sensitization</b> classified based on available	ailable information.	
Com	nponents:		
dime	ethyl phthalate:		
Spec	cies	: Mouse	
Meth	od	: OECD Test G	Guideline 429
Resu	ılt	: Does not cau	se skin sensitization.
2-Bu	tanone, peroxide:		
Spec	ies	: Guinea pig	
Meth	od	: OECD Test G	Guideline 406
Kesu	IIL	: Does not cau	se skin sensilization.
Asse	essment	: Harmful if swa	allowed., Harmful if inhaled.





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	Trimethylpentanediol isobutyrate:								
	Specie: Result	S	:	Guinea pig Does not cause skin sensitization.					
	Butanc Routes Species Methoc Result	one: of exposure s l	••••••	Skin contact Guinea pig OECD Test Guio Does not cause	deline 406 skin sensitization.				
1	<b>Germ d</b> Not cla	cell mutagenicity ssified based on availa	able	information.					
	Comp	onents:							
	dimeth	yl phthalate:							
_	Genoto	oxicity in vitro	:	Method: OECD Result: negative	Test Guideline 471				
				Method: OECD Result: negative	Test Guideline 473				
				Method: OECD Result: positive	Test Guideline 476				
	Genoto	oxicity in vivo	:	Test Type: Chro Species: Rat Application Rout Result: negative	mosomal aberration e: Intraperitoneal				
				Test Type: Micro Species: Mouse Application Rout Result: negative	onucleus test e: Intraperitoneal injection				
l	2-Buta	none, peroxide:							
1	Genoto	oxicity in vitro	:	Method: OECD Result: negative	Test Guideline 473				
				Method: OECD <sup>·</sup> Result: negative	Test Guideline 471				
				Method: OECD Result: negative	Test Guideline 476				
ŀ	Trimet	hylpentanediol isobu	tvra	ite:					
1	Genoto	xicity in vitro	:	Method: OECD Result: negative	Test Guideline 476				
				Test Type: Ame Result: negative	s test				





Version 3.0	Revision Date: 12/04/2019	SDS Number: 600000000100	Date of last issue: 08/19/2019 Date of first issue: 10/04/2016
		Method: OECE Result: negativ	) Test Guideline 473 re
Buta	none:		
Gend	otoxicity in vitro	: Method: OECE Result: negativ	) Test Guideline 471 e
		Method: OECE Result: negativ	) Test Guideline 476 e
		Method: OECE Result: negativ	) Test Guideline 473 e
Genc	otoxicity in vivo	: Species: Mous Application Ro Method: OECE Result: negativ	e ute: Intraperitoneal ) Test Guideline 474 e
Hydr	ogen peroxide:		
Gend	otoxicity in vitro	: Test Type: Am Result: negativ	es test e
Genc	otoxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Result: negativ	mmalian erythrocyte micronucleus test (in vivo say) e e
Carc	inogenicity		
Not c	lassified based on ava	ilable information.	
Com	<u>iponents:</u>		
dime	thyl phthalate:		
Spec	ies eation Pouto	: Rat	
Meth	od	: OECD Test Gu	ideline 451
Resu	llt	: negative	
Rem	arks	: Based on data	from similar materials
2-Bu	tanone, peroxide:		
Rem	arks	: This informatio	n is not available.
IARC	No ingredie identified as	nt of this product pres probable, possible o	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSH	A No compon on OSHA's	ent of this product pre list of regulated carcir	sent at levels greater than or equal to 0.1% is nogens.
NTP	No ingredie identified as	nt of this product pres a known or anticipate	ent at levels greater than or equal to 0.1% is ed carcinogen by NTP.





Version 3.0	Revision Date: 12/04/2019	SE 60	0S Number: 0000000100	Date of last issue: 08/19/2019 Date of first issue: 10/04/2016					
<b>Repro</b> Suspe	Reproductive toxicity Suspected of damaging the unborn child.								
Com	<u>Components:</u>								
dimet	hyl phthalate:								
Effect	s on fertility	:	Species: Rat Application Route Method: OECD Te Result: negative	: oral (gavage) est Guideline 440					
Effect	s on fetal development	:	Species: Rat Application Route General Toxicity M Developmental To Method: OECD To	: Ingestion /aternal: NOAEL: 840 mg/kg body weight oxicity: NOAEL: 3,570 mg/kg body weight est Guideline 414					
2-But	anone, peroxide:								
Effect	s on fertility	:	Species: Rat Application Route General Toxicity F Method: OECD Te Result: negative	: oral (gavage) Parent: NOAEL: 50 mg/kg body weight est Guideline 421					
Trime	thylpentanediol isobu	tyra	ite:						
Effect	s on fetal development	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion					
Repro sessm	ductive toxicity - As- nent	:	Suspected of dam adverse effects or experiments.	aging the unborn child., Some evidence of a development, based on animal					
Butar	ione:								
Effect	s on fertility	:	Species: Rat Application Route General Toxicity F General Toxicity F Method: OECD Te Remarks: Based of	: oral (drinking water) Parent: NOAEL: 10,000 mg/l 1: NOAEL: 10,000 mg/l est Guideline 416 on data from similar materials					
			Species: Rat Application Route General Toxicity F Method: OECD Te Remarks: Based of	: oral (drinking water) Parent: LOAEL: 20,000 mg/l est Guideline 416 on data from similar materials					
Effect	s on fetal development	:	Species: Rat Application Route General Toxicity M weight Teratogenicity: NO	: Inhalation /aternal: NOAEC: ca. 1,002 mg/kg body DAEC Parent: ca. 1,002 mg/kg body weight					





/ersion 8.0	Revision Date: 12/04/2019	SD 600	S Number: 0000000100	Date of last issue: 08/19/2019 Date of first issue: 10/04/2016
			Method: OECD T Result: negative	est Guideline 414
STOT Not cla	-single exposure assified based on availa	able	information.	
Comp	oonents:			
Butan	one:			
Asses	sment	:	May cause drows	iness or dizziness.
Hydro	gen peroxide:			
Asses	sment	:	May cause respire	atory irritation.
STOT	-repeated exposure			
Not cla	assified based on availa	able	information.	
Repea	ted dose toxicity			
Comp	oonents:			
dimet	hyl phthalate:			
Specie	es	:	Rat	
NOAE	L ation Douto	:	770 mg/kg	
Expos	alion Roule		16 w	
Metho	d	:	OECD Test Guide	eline 408
2-Buta	anone, peroxide:			
Specie	es	:	Rat	
NOAE	L	:	200 mg/kg	
Applic	ation Route	:	oral (gavage)	
Metho	d	:	OECD Test Guide	eline 407
Repea Asses	ited dose toxicity - sment	:	Harmful if swallov	ved., Harmful if inhaled.
Hydro	gen peroxide:			
Specie	e . es	:	Mouse	
Applic	ation Route	:	Ingestion	
Expos Sympt	ure time oms	:	90 d No adverse effect	\$
Sympt	0110	•		
Aspira	ation toxicity			
Not cla	assified based on availa	able	information.	
Comp	oonents:			
dimet	hyl phthalate:			

No aspiration toxicity classification

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	•/	





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Trimethylpentanediol isobutyrate: Not classified due to data which are conclusive although insufficient for classification.						
Furthe	r information					
<u>Produe</u> Remar	<u>ct:</u> ks	: No data availab	le			
Comp	onents:					
<b>dimeth</b> Remar	<b>iyl phthalate:</b> ks	: No data availab	le			

### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

# Components:

:	LC50 (Pimephales promelas (fathead minnow)): 39 mg/l Exposure time: 96 h
:	LC50 (Daphnia magna (Water flea)): > 52 mg/l Exposure time: 48 h
:	EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l Exposure time: 72 h
:	NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
	LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 21 d
	LOEC (Daphnia magna (Water flea)): 23 mg/l Exposure time: 21 d
:	EC50: 4,100 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209
:	This product has no known ecotoxicological effects.
:	This product has no known ecotoxicological effects.
	· · · · · · · · · · · · · · · · · · ·





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<b>2-В</b> і Тохі	utanone, peroxide: city to fish	:	LC50 (Poecilia	reticulata (guppy)): 44.2 mg/l
			Exposure time: Method: OECD	96 h Test Guideline 203
			NOEC (Poecilia Exposure time: Method: OECD	a reticulata (guppy)): 18 mg/l 96 h Test Guideline 203
Toxi aqua	city to daphnia and other atic invertebrates	:	EC50 (Daphnia Exposure time: Method: OECD	magna (Water flea)): 39 mg/l 48 h Test Guideline 202
			NOEC (Daphni Method: OECD	a magna (Water flea)): 26.7 mg/l Test Guideline 202
Toxi	city to algae	:	EC50 (Pseudol mg/l	kirchneriella subcapitata (green algae)): 5.6
			Exposure time: Method: OECD	72 h Test Guideline 201
			NOEC (Pseudo mg/l	kirchneriella subcapitata (green algae)): 2.1
			Exposure time: Method: OECD	72 n Test Guideline 201
Toxi	city to microorganisms	:	EC50 (Bacteria Exposure time: Method: OECD	): 48 mg/l 0.5 h Test Guideline 209
Trin	nethylpentanediol isobu	tyra	ite:	
Тохі	city to fish	:	NOEC (Fish): > Exposure time: Method: OECD	= 6 mg/l 96 h Test Guideline 203
Toxi aqua	city to daphnia and other atic invertebrates	:	EC50 (Daphnia Exposure time:	): >= 1.46 mg/l 48 h
			NOEC (Daphni Exposure time:	a): 0.7 mg/l 21 d
Тохі	city to algae	:	EC50 (Chlorella Exposure time: Method: OECD	a pyrenoidosa): > 7.49 mg/l 72 h Test Guideline 201
Toxi aqua ic to	city to daphnia and other atic invertebrates (Chron- xicity)	:	LOEC (Daphnia Exposure time:	a magna (Water flea)): 0.7 mg/l 21 d
Eco	toxicology Assessment			
Acut	te aquatic toxicity	:	This product ha	s no known ecotoxicological effects.





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Chror	nic aquatic toxicity	:	Harmful to aquati	c life with long lasting effects.
Buta	none.			
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD T	s promelas (fathead minnow)): 2,993 mg/l 5 h est Guideline 203
Toxic aquat	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia m Exposure time: 48 Method: OECD T	nagna (Water flea)): 308 mg/l 3 h est Guideline 202
Toxic	ity to algae	:	EC50 (Pseudoking mg/l Exposure time: 96 Method: OECD T	chneriella subcapitata (green algae)): 2,029 5 h est Guideline 201
Toxic	ity to microorganisms	:	NOEC (Pseudom Exposure time: 16 Method: DIN 38 4	onas putida): 1,150 mg/l 5 h .12 Part 8
Hydr	ogen peroxide:			
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 16.4 mg/l 5 h
Toxic aquat	ity to daphnia and other tic invertebrates	:	LC50 (Daphnia p Exposure time: 48	ulex (Water flea)): 2.4 mg/l 3 h
Toxic	ity to algae	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): 1.38 mg/l 2 h
			NOEC (Skeletone Exposure time: 72	ema costatum (marine diatom)): 0.63 mg/l 2 h
Toxic aquat ic tox	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 2	nagna (Water flea)): 0.63 mg/l 1 d
Persi	stence and degradabili	ity		
Com	ponents:			
dime	thyl phthalate:			
Biode	egradability	:	Result: Readily bi Method: OECD T	odegradable. est Guideline 301E
2-But	tanone, peroxide:			
Biode	gradability	:	Result: Readily bi Method: OECD T	odegradable. est Guideline 301D
Trime	ethylpentanediol isobut	tvra	te:	
Biode	egradability	:	Result: rapidly bio Exposure time: 28	odegradable 3 d





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			Method: OECD T	est Guideline 301B	
<b>Butar</b> Biode	<b>none:</b> gradability	:	Result: Readily b Method: OECD T	iodegradable. est Guideline 301D	
<b>Hydro</b> Biode	o <b>gen peroxide:</b> gradability	:	Result: Readily b	iodegradable.	
Bioad	cumulative potential				
Com	oonents:				
<b>dime</b> Bioac	thyl phthalate: cumulation	:	Bioconcentration Method: OECD T	factor (BCF): 57 est Guideline 305	
Partiti octan	on coefficient: n- ol/water	:	log Pow: 1.54		
2-But	anone, peroxide:				
Partiti octan	on coefficient: n- ol/water	:	log Pow: < 0.3 (2	5 °C / 25 °C)	
Trime	ethylpentanediol isobu	utvra	ite:		
Bioac	cumulation	:	Species: Fish Bioconcentration	factor (BCF): 1.95	
Partiti octan	on coefficient: n- ol/water	:	log Pow: 4.91 (25	5 °C / 25 °C)	
<b>Butar</b> Partiti octan	<b>none:</b> on coefficient: n- ol/water	:	log Pow: 0.3 (40	°C / 40 °C)	
<b>Hydro</b> Partiti octan	ogen peroxide: on coefficient: n- ol/water	:	log Pow: -1.57 Remarks: Calcula	ation	
<b>Mobi</b> l No da	l <b>ity in soil</b> Ita available				
Other	adverse effects				
<u>Produ</u> Ozona	<u>uct:</u> e-Depletion Potential	:	Regulation: 40 Cl tection of Stratos Substances Remarks: This pr tured with a Class	FR Protection of Environment; oheric Ozone - CAA Section 6 oduct neither contains, nor wa s I or Class II ODS as defined	Part 82 Pro- 02 Class I is manufac- by the U.S.

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Additio	nal ecological infor-	Clean Air Act S	ection 602 (40 CFR	82, Subpt. A, App.A + B).
mation		unprofessional Toxic to aquatic	handling or disposal	l.
Compo	onents:			
dimeth	yl phthalate:			

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

mation

Additional ecological infor- : No data available

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels		UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S)) 5.2 Not assigned by regulation 5.2
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft)		UN 3105 Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s)) 5.2 Not assigned by regulation Organic Peroxides, Keep Away From Heat 570
Packing instruction (passen- ger aircraft)	:	570
IMDG-Code UN number	:	UN 3105





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Pro Cla Pao Lat Em Ma	per shipping name ss cking group bels S Code rine pollutant	: ( ( : E : F : F	DRGANIC PERO METHYL ETHYL 5.2 Not assigned by r 5.2 <sup>-</sup> -J, S-R no	XIDE TYPE D, LIQUID KETONE PEROXIDE(S)) egulation
<b>Tra</b> Not	nsport in bulk accordi applicable for product a	n <b>g to A</b> i s suppli	nnex II of MARP	OL 73/78 and the IBC Code
Do	mestic regulation			
<b>49</b>	CFR		IN 2105	

UN/ID/NA number	:	UN 3105
Proper shipping name	:	Organic peroxide type D, liquid
		(Methyl ethyl ketone peroxide(s), <=45%)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	ORGANIC PEROXIDE
ERG Code	:	145
Marine pollutant	:	no
-		

### 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**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
2-Butanone, peroxide	1338-23-4	10	29

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Hydrogen peroxide	7722-84-1	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Hydrogen peroxide	7722-84-1	1000
SARA 311/312 Hazards	Flammable (gases, Organic peroxides Acute toxicity (any r Skin corrosion or irri Serious eye damage Reproductive toxicit	aerosols, liquids, or solids) oute of exposure) itation e or eye irritation y

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SARA	313	: The following established by	components are sub / SARA Title III, Sect	ject to reporting levels tion 313:
		dimethyl phthalate	131-11-3	

#### 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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): dimethyl phthalate 131-11-3

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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Butanone 78-93-3

#### **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 contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

dimethyl phthalate 131-11-3

### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

DSL (CA)	:	All components of this product are on the Canadian DSL
AICS (AU)	:	On the inventory, or in compliance with the inventory
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory
KECI (KR)	:	On the inventory, or in compliance with the inventory
PICCS (PH)	:	On the inventory, or in compliance with the inventory
IECSC (CN)	:	On the inventory, or in compliance with the inventory
TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	On TSCA Inventory





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#### **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

Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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; KECI - 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 - (Quanti-



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tative) Structure Activity Relationship; RCRA - Resource Conservation and 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; 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

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

These safety instructions also apply to empty packaging which may still contain product residues.

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety	eChem Portal search results and European Chemicals Agen-
Data Sheet	cy, http://echa.europa.eu/

Revision Date : 12/04/2019

The information provided in this Material 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.

US / Z8