# SAFETY DATA SHEET

# SunRestore 112 Part A



# 1. IDENTIFICATION and COMPANY INFORMATION

Product Name: SunRestore Part A

**SDS Number:** 300000014503

Product Type: Proprietary Polymer

Product Use: Industrial

Manufacturer,Sundek Products USA, Inc.Importer, Supplier805 Avenue H East, Suite 508

Arlington, TX 76001

**Telephone** Chemtrec: (800) 424-9300 or (703) 527-3887

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** FLAMMABLE LIQUID AND VAPOR. AVOID EYE CONTACT WITH VAPOR, SPRAY, OR MIST. AVOID SKIN CONTACT. AVOID BREATHING OF VAPORS. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. HARMFUL IF SWALLOWED. ALSO HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

#### **GHS Classification**

Eye Irrit. 2B, Flam. Liq. 3, Muta. 1B, Skin Irrit. 2, STOT SE 3 RTI

# Symbol(s) of Product







Signal Word Danger

#### **GHS HAZARD STATEMENTS**

Eye Irritation, category 2B H320 Causes eye irritation.

Flammable Liquid, category 3 H226 Flammable liquid and vapor

Germ Cell Mutagenicity, category 1B H340 May cause genetic defects. Classified as mutagenic Category 1 if

ingredient is present at or above 0.1% Applies to liquids, solids and

the substance may also have its own exposure limit. Routes of

dependent on ingredient form.

STOT, single exposure, category 3, H335 May cause respiratory irritation.

Skin Irritation, category 2 H315 Causes skin irritation.

### **GHS LABEL PRECAUTIONARY STATEMENTS**

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face

protection. P281 Use personal protective equipment as required.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel

unwell. P362 Take off contaminated clothing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proofelectrical/ventilating/lighting/.../

equipment. P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

 Chemical Name
 CAS-No.
 Wt.%
 GHSSymbols
 GHSStatements

 Vinyl Toluene
 25013-15-4
 30 - 40
 GHS07-GHS08
 H304-315-320-335-340

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

## 4. FIRST-AID MEASURES



**FIRST AID - EYE CONTACT:** Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.

**FIRST AID - INGESTION:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, administer CPR until help arrives or the victim starts to breathe on his own. If breathing is difficult, give oxygen. Seek medical attention immediately.

**FIRST AID - SKIN CONTACT:** Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention immediately. Wash thoroughly after handling.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** 

Suitable Dry Chemical, C02, Water Fog/Mist, Foam

Not suitable Water Jet

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective gear & SCBA.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**: Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Container may rupture on heating.

# 6. ACCIDENTAL RELEASE MEASURES

**ENVIRONMENTAL MEASURES:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**PRECAUTIONARY MEASURES:** Put on appropriate personal protective equipment (see Section 8). Do not touch or walk through spilled material. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

# 7. HANDLING AND STORAGE





**HANDLING**: Flammable liquid. Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Do not leave containers open. Avoid repeated or prolonged contact with skin. Empty containers retain product residue. Observe all safety precautions. Do not reuse container.

**STORAGE:** Keep away from oxidizers, heat or flames. Keep in cool, dry, ventilated storage and in closed containers. Store away from all ignition sources. Ground all containers during transfer. Store in a cool, dry place. Protect from damage. Store away from flame and ignition sources. Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor. Do not store with incompatible materials. Store in upright position only.

HYGIENIC PRACTICES: General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

**WORK PRACTICES:** Put on appropriate personal protective equipment. Wash hands after handling chemicals and before eating, drinking, or smoking. Read and understand entire SDS before handling chemical.

SPECIAL HANDLING PROCEDURES: Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Follow US NFPA 30, "Flammable and Combustible Liquids Code", or other national, state and local codes on safe handling of flammable liquids. Train workers in the recognition and prevention of hazards associated with the storage, handling, and transfer of flammable liquids in the plant. Empty containers retain product residue and can be hazardous.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with Occupational Exposure Limits** 

Chemical NameACGIHTLV-ACGIH-TLVOSHAPEL-OSHAVinyl Toluene50 ppm100 ppm100 ppmN.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

#### **Personal Protection**



**RESPIRATORY PROTECTION:** Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



**SKIN PROTECTION**: Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact. Impervious gloves.



**EYE PROTECTION:** Safety glasses with side-shields. Avoid contact with eyes.



**OTHER PROTECTIVE EQUIPMENT:** Use good hygiene practices. Wash face and hands before eating, drinking, and smoking. Eye wash and safety showers should be readily available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:Amber.Physical State:Viscous liquid.Odor:aromatic.Odor Threshold:Not AvailableDensity, g/cm3:1.160pH:Not Available

Freeze Point, °C: Not Available Viscosity: Not Available

Solubility in Water: Not Available Partition Coefficient, n-octanol/ Not Available

water

Decomposition Temp., °C: Not Available Flash Point, °C / F° 53 / 127

Boiling Range, °C: 168 Explosive Limits, vol%: Not Available

Vapor Pressure: Not Available Auto-ignition Temp., °C: Not Available

(See "Other information" Section for abbreviation legend)

# 10. STABILITY AND REACTIVITY

**STABILITY:** This material is stable under normal storage and handling conditions.

**CONDITIONS TO AVOID:** High temperatures, sparks, open flame, and all other sources of ignition. Avoid heat, sparks, flames and other ignition sources.

**INCOMPATIBILITY:** Keep away from strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No dangerous reaction known under conditions of normal use.

# 11. TOXICOLOGICAL INFORMATION



#### **Practical Experiences**

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Moderate irritation including redness, swelling, pain, tearing and hazy vision. May cause irritation, discomfort, reddening and tearing.

**EFFECT OF OVEREXPOSURE - INGESTION:** May cause irritation of the respiratory tract and CNS effects such as dizziness, headaches, nausea and narcosis.

**EFFECT OF OVEREXPOSURE - INHALATION:** Inhalation of high concentrations may cause headache, nausea, and dizziness.

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Prolonged contact may cause irritation and/or redness.

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** No Information

**CARCINOGENICITY:** No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Contact

**Acute Toxicity Values** 

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.NameaccordingtoEECOralLD50DermalLD50VaporLC5025013-15-4 Vinyl Toluene2255 mg/kg Rat4490 mg/kg Rabbit >3535 mg/l Rat (4 Hours)

N.I. = No Information

### 12. ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits. Discharge into the environment must be avoided.

## 13. DISPOSAL CONSIDERATIONS



**DISPOSAL METHOD:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, Solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

# 14. TRANSPORT INFORMATION

SPECIAL TRANSPORT PRECAUTIONS: No Information

#### International transport regulations

ntity (RQ)

## 15. REGULATORY INFORMATION

### **U.S. Federal Regulations:**

#### **CERCLA-SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

#### **SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

#### TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

## **U.S. State Regulations:**

#### **NEWJERSEY RIGHT-TO-KNOW:**

The following hazardous materials are listed.

Chemical NameCAS-No.Vinyl Toluene25013-15-4Medium Aliphatic Solvent Naphtha (petroleum)64742-88-71,4-Naphthalenedione130-15-4

#### PENNSYLVANIA RIGHT-TO-KNOW

The following hazardous ingredients are present:

Chemical NameCAS-No.Vinyl Toluene25013-15-41,4-Naphthalenedione130-15-4

#### MASSACHUSETTS RIGHT-TO-KNOW:

The following hazardous materials are listed.

 Chemical Name
 CAS-No.

 Vinyl Toluene
 25013-15-4

 1,4-Naphthalenedione
 130-15-4

## **CALIFORNIA PROPOSITION 65 CARCINOGENS**

Warning: This product contains a chemical known to the state of California to cause Cancer.

No Proposition 65 Carcinogens exist in this product.

#### **CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

Warning: This product contains a chemical known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

## International Regulations

## **CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: B2,D2A

#### **Chemical Inventories**

Australia inventory (AICS) All components are listed or exempted Canada inventory (DSL) All components are listed or exempted Japan Inventory (ENCSC) Not Determined China Inventory (IECSC) All components are listed or exempted Korea Inventory (KECI) All components are listed or exempted New Zealand (NZIoC) All components are listed or exempted Philippines (PICCS) All components are listed or exempted **United States Inventory (TSCA 8b)** All components are listed or exempted

### **16. OTHER INFORMATION**

Revision Date: 12/8/2015 Supersedes Date: New SDS

Reason for revision: No Information

Datasheet produced by: Regulatory Department

**HMIS Ratings:** 

Health:	2	Flammability:	2	Reactivity:	0	Personal Protection:	N.I.	Chronic	N.I.
								Rating:	

#### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H320 Causes eye irritation.

H335 May cause respiratory irritation. H340 May cause genetic defects.

#### Icons for GHS Pictograms shown in Section 3 describing each ingredient:



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information provided herein was believed by Sundek Products to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Sundek Products are subject to Sundek Products' terms and conditions of sale. Sundek Products MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY Sundek Products

except that the product shall conform to Sundek Products specifications. Nothing contained herein constitutes an offer for the sale of any product.

THIS AREA INTENTIONALLY BLANK

Material no. Version 1.1 / US
Specification 185546 Revision date 12/2017

Order Number

### 1. Identification

#### 1.1. Product identifier

Trade name NOROX® MEKP-9

#### 1.2. Recommended use of the chemical and restrictions on use

1.3. Details of the supplier of the safety data sheet

Company United Initiators, Inc.

334 Phillips 311 Rd. Helena, AR 72342-9033

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 &** 800-424-9300

**CANADA:** 

CHEMTREC +1 703-527-3887 (collect calls accepted)

**INTERNATIONAL:** 

Product Regulatory : 800-231-2702

Information

# 2. Hazards identification

## 2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 4	H227
Organic peroxides	Type D	H242
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 3	H402
Chronic aquatic toxicity	Category 3	H412

#### 2.2. Label elements

Statutory basis Classification according to Regulation 29CFR1910.1200

Symbol(s)



Material no.

Specification 185546

Order Number

Version Revision date 1.1 / US 12/2017

Signal word Danger

Hazard statement H227 - Combustible liquid

H242 - Heating may cause a fire.

H314 - Causes severe skin burns and eye damage. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statement:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P220 - Keep/Store away from clothing/ strong acids, bases, heavy metal salts and

other reducing substances /combustible materials.

P234 - Keep only in original container. P260 – Do not breathe dust or mist. P264 - Wash skin thoroughly after handling. P273 - Avoid release to the environment.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statement:

Reaction

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor. P363 - Wash contaminated clothing before reuse.

P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide to extinguish.

P391 - Collect spillage.

Precautionary statement:

Storage

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

P405 - Store locked up.

P411 - Store at temperatures not exceeding 38°C (100°F).

P420 - Store away from other materials.

Precautionary statement:

Disposal

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

### 2.3. Other hazards

None known.

35 Phlegmatizer

#### 3. Composition/information on ingredients

35 Methyl ethyl ketone peroxide	32% - 35%		
CAS-No. 1338-23-4 Flammable liquids Organic peroxides Acute toxicity (Oral) Skin corrosion Serious eye damage	Category 4 Type D Category 4 Category 1B Category 1		
35 Dimethyl phthalate	35% - 60%		
CAS-No. 131-11-3			
Remarks Not a hazardous substance or mixture.			

6% - 26%

Material no. Specification 185546 Version Revision date 1.1 / US 12/2017

Order Number

CAS-No. Proprietary Acute aquatic toxicity Chronic aquatic toxicity	Category 2 Category 2
界 Methyl ethyl ketone 0% - 2%	
CAS-No. 78-93-3 Flammable liquids Eye irritation Specific target organ toxicity - single exposure (Central nervous system)	Category 2 Category 2A Category 3
³⁵ Hydrogen peroxide <= 1%	
CAS-No. 7722-84-1 Oxidizing liquids Acute toxicity (Oral) Skin corrosion Serious eye damage Specific target organ toxicity - single exposure (Respiratory system) Chronic aquatic toxicity	Category 1 Category 4 Category 1A Category 1 Category 3 Category 3

Other information

This material is classified as hazardous under OSHA regulations.

#### 4. First aid measures

#### 4.1. Description of first aid measures

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

#### Skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

#### Eve contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

#### Ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

#### **Symptoms**

None known

#### 4.3. Indication of any immediate medical attention and special treatment needed

None known.

## 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Dry Chemical combined with peroxide may reignite fire. Light water additives may be particularly effective at extinguishing peroxide fires.

Unsuitable extinguishing media: High volume water jet.

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

Material no. Specification 185546

Order Number

Version 1.1 / US Revision date 12/2017

The heat of decomposition of the peroxides adds to the heat of the fire. Dry chemical fire extinguishing agent may catalyze the decomposition.

#### 5.3. Advice for firefighters

If dry chemical is used to extinguish a peroxide fire, the extinguished area must be thoroughly wetted down with water to prevent reigniting.

As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.

Containers near the source of fire should be cooled with a water spray to prevent contents from reaching decomposition temperature.

#### 6. Accidental release measures

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

Evacuate personnel to safe areas. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Section 8 - Exposure Controls/Personal Protection.) Remove all sources of ignition. Ventilate the area.

#### 6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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

Dike spill to prevent runoff from entering drains, sewers, streams, etc. Wet spilled material with water and absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up using non-sparking tools and place in a clean polyethylene drum or a polyethylene pail. DO NOT place into a steel container, lined or unlined, as decomposition may occur. Treat any contaminated cardboard packaging as hazardous waste. Wet container with additional water prior to sealing. Use absorbent/absorbent material to solidify liquids. Clean up promptly by sweeping or vacuum. Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

Rotate stock using the oldest material first. Avoid contact with skin, eyes and clothing. Use PPE as specified in section 8. Keep containers closed to prevent contamination. Keep away from sources of heat, sparks, or flame. Do not add to hot solvents or monomers as a violent decomposition and/or reaction may result. When using spray equipment, never spray raw peroxide onto curing or into raw resin or flues. Keep peroxide in its original container. DO NOT USE NEAR FOOD OR DRINK. Wash thoroughly after handling. Protect from contamination. Keep tightly sealed in original packing. Risk of decomposition. Wash thoroughly after handling.

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

#### Storage

The stability of peroxide formulations we directly related to the shipping and storage temperature history. Cool storage at 80° F (27°C) or below is recommended for longer shelf life and stability. Prolonged storage at elevated temperatures of 100° F (38°C) and higher will cause product degradation, gassing and potential container rupture which can result in a fire and/or explosion. Store out of direct sunlight in a well ventilated area away from combustible and incompatible material. DO NOT STORE WITH FOOD OR DRINK

Refer to NFPA 400 Hazardous Materials Code from the National Fire Protection Association for additional storage information.

#### **Further information**

Store apart from other dangerous and incompatible substances. Keep away from direct sunlight.

Material no.

Specification 185546

Order Number

Version Revision date 1.1 / US 12/2017

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

### 8. Exposure controls/personal protection

### 8.1. Control parameters

Control parameters				
¾ Methyl ethyl	ketone peroxide			
CAS-No. Control parameters	1338-23-4 0.2 ppm	Ceiling Limit Value:(ACGIH)		
Control parameters	0.2 ppm 1.5 mg/m3	Ceiling Limit Value:(US CA OEL)		
35 Dimethyl phtl	nalate			
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)		
35 Methyl ethyl	ketone			
CAS-No.	78-93-3			
Control parameters	200 ppm	Time Weighted Average (TWA):(ACGIH)		
Control parameters	300 ppm	Short Term Exposure Limit (STEL):(ACGIH)		
Control parameters	200 ppm 590 mg/m3	Permissible exposure limit:(OSHA Z1)		
Control parameters	200 ppm 590 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)		
Control parameters	300 ppm 885 mg/m3	Short Term Exposure Limit (STEL):(US CA OEL)		
∯ Hydrogen peroxide				
CAS-No.	7722-84-1			
Control parameters	1 ppm	Time Weighted Average (TWA):(ACGIH)		
Control parameters	1 ppm 1.4 mg/m3	Permissible exposure limit:(OSHA Z1)		
Control parameters	1 ppm	Time Weighted Average (TWA) Permissible		
	1.4 mg/m3	Exposure Limit (PEL):(US CA OEL)		

## 8.2. Exposure controls

#### **Engineering measures**

Local exhaust and mechanical ventilation recommended.

### 8.3. Personal protective equipment

#### Respiratory protection

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.

Material no.

185546

Version Revision date 1.1 / US 12/2017

Specification
Order Number

#### Hand protection

Wear protective gloves made of the following materials:

solvent-resistant gloves (butyl-rubber)

nitrile rubber

Neoprene gloves

Skin should be washed after contact.

#### Eye protection

Use chemical splash goggles or face shield.

## 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 during use.

Wash hands before breaks and immediately after handling the product.

#### **Protective measures**

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

## 9. Physical and chemical properties

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

physical state liquid
Color Water-white.
Form liquid
Odor slight

Odor Threshold No data available

pH not applicable

Melting point/range no data available

Boiling point/range not determined

Flash point > 76 °C (Seta closed cup)

Evaporation rate not determined

Flammability (solid, gas) not applicable

Lower explosion limit no data available

Upper explosion limit no data available

Vapor pressure no data available

Relative vapor density > 1

Relative density 1.1

Water solubility soluble

Material no.

Specification 185546

Order Number

Version Revision date 1.1 / US 12/2017

Solubility/qualitative no data available

Partition coefficient (n-

no data available

octanol/water)

Auto ignition temperature no data available

Thermal decomposition > 60 °C

Viscosity, dynamic no data available

Viscosity, kinematic not determined

#### 9.2. Other information

peroxides The substance or mixture is an organic peroxide classified astype D.

SADT SADT  $> 60 \, ^{\circ}\text{C}$ 

#### 10. Stability and reactivity

#### 10.1. Reactivity

Stable under recommended storage conditions.

#### 10.2. Chemical stability

Contact with incompatible substances can cause disintegration at or below SADT.

#### 10.3. Possibility of hazardous reactions

Stability Stable under recommended storage conditions. Vapors may form explosive mixtures with air.

reactions

#### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.

Exposure to sunlight.

Prolonged storage above 100°F (38°). Storage above SADT. Storage near flammable or combustible material.

# 10.5. Incompatible materials

Keep away from strong acids, bases, heavy metals, salts, reducing agents and accelerators. Contaminants (e.g. rust, dust, ash). Combustible materials. Risk of decomposition. Dimethylaniline, cobalt napthenate and other promoters, accelerators, reducing agents, or any hot

material.

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)., Irritant, caustic, flammable, noxious/toxic gases and vapors can develop in the case of fire and decomposition. Acrid smoke and irritating fumes.

### 11. Toxicological information

## 11.1. Information on toxicological effects

No toxicological studies are available on the mixture.

carcinogenicity assessment NTP: No component of this product present at levels greater than or equal

Material no.

Specification 185546

Order Number

Version Revision date 1.1 / US 12/2017

to 0.1% is identified as a known or anticipated carcinogen by NTP.

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 identified as a carcinogen or potential carcinogen by

OSHA.

### Toxicological information on components Methyl ethyl ketone peroxide

Acute oral toxicity LD50 Oral Rat(male): 1017 mg/kg

Skin irritation causes severe skin burns and eye damage.

Causes burns.

Eye irritation Causes serious eye damage.

Risk of serious damage to eyes.

Dimethyl phthalate

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.

**Phlegmatizer** 

Acute oral toxicity LD50 Oral Rat(female): > 2000 mg/kg

Acute inhalation toxicity LCLo Rat: > 0.12 mg/l / 6 h

Acute dermal toxicity LD50 Dermal Rat(male/female): > 2000 mg/kg

Skin irritation No skin irritation

Eye irritation No eye irritation

Hydrogen peroxide

Acute oral toxicity LD50 Oral Rat (male): 1026 mg/kg

Test substance: Hydrogen peroxide >= 50%

LD50 Oral Rat (female): 693.7 mg/kg
Test substance: Hydrogen peroxide >= 50%

Material no.

Specification 185546

Acute inhalation toxicity

Order Number

Version 1.1 / US
Revision date 12/2017

Assessment: Harmful if inhaled.

Acute dermal toxicity LD50 Dermal Rat (male and female) : > 2000 mg/kg

Skin irritation corrosive

Eye irritation corrosive

Sensitization Not sensitizing.

Assessment of STOT single

exposure

Assessment: May cause respiratory irritation.

Methyl ethyl ketone

Acute oral toxicity LD50 Oral Rat: 2737 mg/kg

Acute inhalation toxicity LC50 Rat: 23500 mg/l / 8 h

Acute dermal toxicity LD50 Rabbit: 6480 mg/kg

Eye irritation Irritating to eyes.

irritating

Assessment of STOT single

exposure

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

Mutagenicity assessment This product may cause mutagenic effects.

### 12. Ecological information

#### 12.1. Toxicity

Toxicity to fish There is no data available for this product.

Toxicity in aquatic

No data is available on the product itself.

invertebrates

Toxicity to algae No data is available on the product itself.

## 12.2. Persistence and degradability

Biodegradability no data available

# 12.3. Bio accumulative potential

Bioaccumulation no data available

# 12.4. Mobility in soil

Mobility No data available

# 12.5. Other adverse effects

## SAFETY DATA SHEET

# SunRestore Part B

Material no.
Specification 185546

Order Number

Version 1.1 / US
Revision date 12/2017

Further Information Avoid release to the environment.

### 13. Disposal considerations

#### 13.1. Waste treatment methods

#### 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

14.1. UN number: UN 3105

14.2. UN proper shipping name: Organic peroxide type D, liquid(Methyl ethyl ketone peroxide

<= 45%)

14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards (Marine

pollutant):

14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

14.1. UN number: UN 3105

14.2. UN proper shipping name: Organic peroxide type D, liquid(Methyl ethyl ketone peroxide

<= 45%)

14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Environmental hazards:
14.6. Special precautions for user:
Yes

IATA-C: ERG-Code 5L

Must be protected from direct sunlight and stored away from all sources of heat in a well-

ventilated area.

IATA-P: ERG-Code 5L

Must be protected from direct sunlight and stored away from all sources of heat in a well-

ventilated area.

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 3105

14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID(Methyl ethyl ketone

peroxide <= 45%)

14.3. Transport hazard class(es):5.214.4. Packing group:--14.5. Environmental hazards (Marine--

pollutant):

14.6. Special precautions for user: Yes

Material no. Specification 185546

EmS:

Order Number

Version 1.1 / US Revision date 12/2017

F-J,S-R

"Separated from" acids and alkalis. Protected from sources of heat.

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

#### 15. Regulatory information

# **US Federal Regulations**

#### **OSHA**

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

None listed

#### Clean Air Act Section (112)

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

Dimethyl phthalate CAS-No. 131-11-3

#### **CERCLA Reportable Quantities**

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

Methyl ethyl ketone peroxide
 CAS-No. 1338-23-4
 Reportable Quantity 29 lbs

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

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

- 35 Acute Health Hazard
- Fire 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:

None listed

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

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

None listed

Material no. Specification

185546

Version Revision date 1.1 / US 12/2017

Order Number

#### **State Regulations**

### **California Proposition 65**

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

None listed

#### **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) listed/registered 35 17 listed/registered USA (TSCA) 35 17 Canada (DSL) listed/registered Australia (AICS) listed/registered 35 17 Japan (MITI) listed/registered 35 17 Korea (TCCL) listed/registered Philippines (PICCS) not listed/registered China listed/registered 35 17 New Zealand not 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: 3 Flammability: 2 Physical Hazard: 2

#### **NFPA Ratings**

Health: 3 Flammability: 2 Reactivity: 2

#### 16. Other information

#### Further information

Revision date 12/18/2016

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

Material no. Specification 185546 Version Revision date 1.1 / US 12/2017

Order Number

Disclaimer: The information and recommendations contained herein are, to the best of Sundeck Products knowledge and belief, accurate and reliable as of the date issued. Sundeck Products does not warrant or guarantee their accuracy or reliability, and Sundeck Products shall not be liable for any loss or damage arising out of their use thereof. The information and recommendations are offered for the users' consideration and examination, and it is the users' responsibility to satisfy itself that they are suitable and complete for its particular use.

THIS AREA INTENTIONALLY BLANK

Material no. Version 1.1 / US Specification 185546 Revision date 12/2017

Order Number

Legend

ACC American Chemistry Council

ACGIH American Conference of Governmental Industrial Hygienists

ACS Advisory Committee on Sustainability

ADI Acceptable Daily Intake

ASTM American Society for Testing and Materials

ATP Adaptation to Technical Progress
BCF Bio concentration factor
BOD Biochemical oxygen demand

c.c. closed cup
CAO Cargo Aircraft Only
Carc Carcinogen

CAS Chemical Abstract Services

CDN Canada

CEPA Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response – Compensation and Liability Act

CFR 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 Emergency Response Guide Book

FDA Emergency Response Guide Book
FDA Food and Drug Administration

GHS 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
IATA International Air Transport Association

IBC Intermediate Bulk Container

ICAO-TI International Civil Aviation Organization- Technical Instructions

ICCA International Council of Chemical Association

ID Identification number

IMDGInternational Maritime Dangerous GoodsIUPACInternational Union of Pure and Applied ChemistryISOInternational Organization For Standardization

LC50 50 % Lethal Concentration LD50 50 % Lethal Dose

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 No observed adverse effect level
NOEC no observed effect concentration
NOEL no observed effect level

o. c. open cup

OECD Organization for Economic Cooperation and Development

OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PBT Persistent, bio accumulative, toxic
PEC Predicted effect concentration
PNEC Predicted no effect concentration

RQ Reportable Quantity SDS Safety Data Sheet

STOT Specific Target Organ Toxicity

UN United Nations

vPvB very persistent, very bio accumulative

Version 1.1 / US Material no. 12/2017 Revision date Specification 185546

Order Number

VOC WHMIS

Volatile Organic Compounds Workplace Hazardous Materials Information System

WHO World Health Organization

THIS AREA INTENTIONALLY BLANK