SAFETY DATA SHEET			
NOROX® TBPB			UNITED INITIATORS
Material no. Specification <b>150762</b> Order Number	Version Revision date Print Date Page	1.0 / US 01/12/2015 04/13/2015 1 / 13	driving your success

## 1. Identification

## 1.1. Product identifier

Trade name

NOROX<sup>®</sup> TBPB

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

Relevant applications identified polymerization initiator

#### 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 & CANADA:	800-424-9300
CHEMTREC INTERNATIONAL:	+1 703-527-3887 (collect calls accepted)
Product Regulatory	: 800-231-2702

Services

## 2. Hazards identification

## 2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Organic peroxides	Type C	H242
Acute toxicity (Inhalation)	Category 4	H332
Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 3	H412

## 2.2. Label elements

Statutory basis Classification according to Regulation 29CFR 1910.1200



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NURU			. <i>.</i> .		UNITED INITIATORS
Material Specifica Order Nu	ation 1	150762	Version Revision date Print Date Page	1.0 / US 01/12/2015 04/13/2015 2 / 13	driving your success
Siç	gnal word		Danger		
На	zard statement		H242 - Heating may cause a f H315 - Causes skin irritation. H317 - May cause an allergic H332 - Harmful if inhaled. H400 - Very toxic to aquatic li	skin reaction.	
	ecautionary state evention	ment:	P210 - Keep away from heat/ P220 - Keep/Store away from other reducing substances /cc P234 - Keep only in original c P261 - Avoid breathing dust/ f P264 - Wash skin thoroughly P271 - Use only outdoors or in P272 - Contaminated work clo P273 - Avoid release to the er P280 - Wear protective gloves	clothing/ strong acids, pmbustible materials. ontainer. ume/ gas/ mist/ vapours after handling. n a well-ventilated area. othing should not be allo nvironment.	bases, heavy metal salts and s/ spray. wed out of the workplace.
	Precautionary statement: ReactionP302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a posit comfortable for breathing. P312 - Call a POISON CENTER or doctor/ physician if you feel unwell. P321 - Specific treatment (see supplemental first aid instructions on this label). P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before reuse. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.				air and keep at rest in a position if you feel unwell. instructions on this label). edical advice/ attention.
	ecautionary state prage	ment:	P410 - Protect from sunlight. P411 - Store at temperatures P235 - Keep cool. P420 - Store away from other	<b>.</b> .	)°F).
	ecautionary state sposal	ment:	P501 - Dispose of contents/ c	ontainer to an approved	l waste disposal plant.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

tert-Butyl perbenzoate	97% - 100%	
CAS-No. 614-45-9 Organic peroxides Acute toxicity (Inhalation) Skin irritation Skin Sensitisation Acute aquatic toxicity Chronic aquatic toxicity	Type C Category 4 Category 2 Category 1 Category 2 Category 3	

## Other information

This material is classified as hazardous under OSHA regulations.

## 4. First aid measures

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## 4.1. Description of first aid measures

## **General advice**

Take off contaminated clothing immediately. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. If feeling unwell seek medical advice.

## Inhalation

If inhaled remove to fresh air. If cough or other symptoms develops or persists get medical attention.

## Skin contact

Wash off with soap and water.

Consult a physician in case of eye irritation.

## Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## Ingestion

If large quantities of this material are swallowed, call a physician immediately.

DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Never give anything by mouth to an unconscious person.

Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

## 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.Unsuitable extinguishing media:High volume water jet.

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

Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self acceleration decomposition reaction with release of flammable vapors which may autoignite. Cool closed containers exposed to fire with water spray.

Containers exposed to temperatures exceeding the SADT (see section 10) may explode. Vapors can travel to a source of ignition and flash back.

Do not allow run-off from fire fighting to enter drains or water courses.

## 5.3. Advice for firefighters

Evacuate area and fight fire from a safe distance.

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

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

## 6. Accidental release measures

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

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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, rivers, groundwater or soil.

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

Organic Peroxide spills should be attended to immediately. Contain spill and absorb with an inert absorbent material and then wet down the mixture with water. Sweep up mixture of spilled organic peroxide and inert absorbent material using non-sparking tools and place in polyethylene bags for disposal. The sweepings in the polyethylene bag should be further wetted with water and disposed of immediately by an approved disposal company. If stored for any period of time, store out of direct sunlight in a cool, well-ventilated place. After all the material has been picked up, wash down the spill area with surfactant and water to remove any traces of organic peroxide. Allow for sufficient ventilation to aid in the removal of fumes that may be present.

## Additional advice

Never return spills in original containers for re-use. Dispose of contaminated material as waste in accordance with section 13.

## 7. Handling and storage

## 7.1. Precautions for safe handling

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling. Do not swallow product. Use personal protective equipment. Protect from contamination. Dispense and transfer in an area separate from storage area. Never return unused material to storage receptacle. Wash contact areas after handling. Remove contaminated clothing and wash before reuse. The addition of accelerators may result in vigorous decomposition.

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

## Advice on protection against fire and explosion

Containers exposed to temperatures exceeding the SADT (see section 10) may decompose violently. Consult with specialists to ensure design protects against these hazards.

Avoid contact with copper containing metals/alloys due to the risk of accelerated decomposition reaction which can be violent.

## Storage

Heat or contamination may cause hazardous decomposition.

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Keep container away from flammable and explosive substances.

Protect from heat and exposure to direct sunlight

Store in original container.

Transport and store container in upright position only.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Consult NFPA 400 for storage area guidance. Storage and handling designs should be arranged in consultation with a person experienced in these types of assessments.

## **Further information**

Store at or below 27°C (80°F).

Peroxide residues must not be returned into the original container, danger of decomposition!

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## Advice on common storage

Do not store together with:

acids, alkalis, reducing agents, metallic salts.

Storage stability

10 - 30 °C

## 8. Exposure controls/personal protection

#### 8.1. Control parameters

#### Other information

Contains no substances with occupational exposure limit values.

## 8.2. Exposure controls

## Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure.

## 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.

#### Hand protection

Use impermeable gloves.

Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required.

Gloves must be inspected prior to use.

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

Glove material butyl rubber

Material thickness0.5 mmBreak through time> 8 hrs

## 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

Remove and wash contaminated clothing before re-use. Wash contact areas after handling. Keep away from food, drink and animal feedingstuffs. All protective equipment that has been contaminated should be cleaned before reuse.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

physical state liquid Colour slightly yellow

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Form Odour	liquid very faint, e	ester-like		
Odour Threshold	not applical	ble		
рН	No data ava	ailable		
Melting point/range	9 - 11 °C			
Boiling point/range	Not applica decomposi			
Flash point	100 °C Method:	Setaflash C	losed Cup	
Evaporation rate	not applical	ble		
Flammability (solid, gas)	Not applica	ble.		
Lower explosion limit	no data ava	ailable		
Upper explosion limit	no data ava	ailable		
Vapour pressure	0.003 hPa	(20 °C)		
Relative vapour density	no data ava	ailable		
Relative density	no data ava	ailable		
Density	1.04 g/cm3	(20 °C)		
Water solubility	1.140 - 1.22	20 g/l		
Solubility in other solvents	Medium: miscible	Alcohol		
Partition coefficient: n-	log Pow:	3.0	(25 °C)	
octanol/water Autoignition temperature	no data ava	ailable		
Thermal decomposition	Rapid, exot Decomposi SADT-Self at which the	tion Tempera Accelerating e tested pack tion reaction.	ion may occur above th ature (SADT). Decomposition Tempe age size will undergo a	rature. Lowest temperature
Viscosity, dynamic	8 mPa.s	(20 °C)		
Viscosity, kinematic	no data ava	ailable		
9.2. Other information peroxides	The substa	nce or mixtur	e is an organic peroxid	e classified as type C.

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#### 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	Product will not undergo hazardous polymerization.
Possibility of hazardous	When coming in contact with the product, impurities, decomposition
reactions	catalysts, metallic salts, alkalis, reducing agents may lead to self-
	accelerated, exothermic decomposition and the formation of oxygen
	compounds.
	Risk of decomposition when exposed to heat.

#### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.

#### 10.5. Incompatible materials

Heavy metal compounds, reducing agents, Combustible material, Strong acids and strong bases, Oxidizing agents, impurities, metal ions, metallic salts, metals.

#### 10.6. Hazardous decomposition products

Temperatures at or above the SADT can result in the release of hazardous decomposition products which are flammable and can autoignite., In case of fire and decomposition formation of inflammable and explosive, irritant, corrosive, harmful and toxic gases and vapors possible.

Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self acceleration decomposition reaction with release of flammable vapors which may autoignite.

## 11. Toxicological information

## 11.1. Information on toxicological effects

carcinogenicity assessment Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

## Toxicological information on components

tert-Butyl perbenzoate Acute oral toxicity	LD50 rat: > 2000 mg/kg Test substance: pure substance
Acute inhalation toxicity	LC50 Rat: 4.9 mg/l / 4 h / dust/mist Assessment: Harmful if inhaled.
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg
Skin irritation	/ Causes skin irritation. Skin irritation
Eye irritation	/ No eye irritation No eye irritation

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Sensitization		Maximisation Test (GPMT) : May cause sensitisation by skin contact. Test substance: pure substance Causes sensitisation.		
Mutagenicity	Mutagenicity assessment When tested in the Ames Mutation test, tert-Butyl peroxybenzoate shown both weakly positive and negative results. In the Mouse Ly and Sister Chromatid Exchange Assays, tert-Butyl peroxybenzoate produced positive results.			sults. In the Mouse Lymphoma
Toxicity to rep	production	no data available		
Further information When administered in drinking water, at varia mg/Kg, tert-Butyl peroxybenzoate caused for mice in a dose-dependent fashion. Overexpor animals has been shown to lower the activity cells and has been suggested as a cause of sensitization, liver abnormalities and kidney of also been suggested as a cause for liver dam		restomach lesions in rats and osure to the aromatic diluent in v of certain immune system blood abnormalities, cardiac damage. In humans it has		

## 12. Ecological information

## 12.1. Toxicity

Toxicity to fish	LC50 Danio rerio (zebra fish): 1.6 mg/l / 96 h Test substance: pure substance
Toxicity in aquatic	EC50 Daphnia (water flea): 11 mg/l / 24 h
invertebrates Toxicity to algae	EC50 Pseudokirchneriella subcapitata: 0.8 mg/l / 72 h
Toxicity to bacteria	EC50 Bacteria: 43 mg/l / 0.30 h

## 12.2. Persistence and degradability

Biodegradability

Concentration:1 mg/lExposure time:28 dResult:rapidly biodegradableMethod:OECD 301 D

## 12.3. Bioaccumulative potential

Bioaccumulation no data available

## 12.4. Mobility in soil

Mobility no data available.

## 12.5. Other adverse effects

Further Information No data available

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#### 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.

#### Product

RCRA Classification Ignitable D001.

RCRA Classification Reactive D003.

## **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 3103
14.2. UN proper shipping name:	Organic peroxide type C, liquid(tert-Butyl peroxybenzoate, 98%)
14.3. Transport hazard class(es):	
14.4. Packing group:	ll
14.5. Environmental hazards (Ma pollutant):	rine Yes
14.6. Special precautions for user	: No
Air transport ICAO-TI/IATA-DGR	
14.1. UN number:	UN 3103
14.2. UN proper shipping name:	Organic peroxide type C, liquid(tert-Butyl peroxybenzoate, 98%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	
14.5. Environmental hazards:	-
14.6. Special precautions for user	Yes
IATA-C: ERG-Code 5L	
	ed from direct sunlight and stored away from all sources of heat in a well-
ventilated area.	
IATA-P: ERG-Code 5L	ad from direct continues and started course from all courses of boot in a well
ventilated area.	ed from direct sunlight and stored away from all sources of heat in a well-
Sea transport IMDG-Code/GGVS	See (Germany)
14.1. UN number:	UN 3103
14.2. UN proper shipping name:	ORGANIC PEROXIDE TYPE C, LIQUID(tert-Butyl
14.2 Transport becard close (ac)	peroxybenzoate, 98%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	ring Voc
14.5. Environmental hazards (Ma pollutant):	rine Yes

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- 14.6. Special precautions for user: Yes EmS: 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 transportapproval see regulatory information

## 15. Regulatory information

## **US Federal Regulations**

## **OSHA**

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

None listed

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

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

None listed

## **CERCLA Reportable Quantities**

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

None listed

## SARA Title III Section 311/312 Hazard Categories

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

- Reactivity Hazard
- Acute Health Hazard

## SARA Title III Section 313 Reportable Substances

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

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

## **State Regulations**

## **California Proposition 65**

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

None listed

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#### **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
•	USA (TSCA)	listed/registered
•	Canada (DSL)	listed/registered
•	Australia (AICS)	listed/registered
•	Japan (MITI)	listed/registered
•	Philippines (PICCS)	listed/registered
•	China	listed/registered
•	Korea	listed/registered
٠	New Zealand	listed/registered

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

#### **HMIS Ratings**

Health :	2
Flammability :	1
Physical Hazard :	3

#### **NFPA Ratings**

Health :	2
Flammability :	1
Reactivity :	3

#### 16. Other information

#### **Further information**

Revision date 01/12/2015

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

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

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Legend					
ACC	American	Chemistry Council			
ACGIH	American	Conference of Governmental	ndustrial Hygenists		
ACS		Committee on Sustainability	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ADI		e Daily Intake			
ASTM		Society for Testing and Materi	als		
ATP		n to Technical Progress			
BCF		tration factor			
BOD		al oxygen demand			
C.C.	closed cup				
CAO	Cargo Airo				
Carc	Carcinoge				
CAS		Abstract Services			
CDN	Canada				
CEPA		Environmental Protection Act	Componentian and		
CERCLA CFR		ensive Environmental Respons	e – Compensation and	Liability Act	
CMR		ederal Regulations hic-mutagenic-toxic for reprodu	uction		
COD		oxygen demand	JULION		
DIN		stitute for Standardization			
DMEL		inimum effect level			
DNEL		o effect level			
DOT		nt of Transportation			
EC50		nal effective concentration			
EPA		ental Protection Agency			
ErC50		of Growth Rate			
ERG	Emergency Response Guide Book				
FDA		Drug Administration			
GHS		armonized System of Classific	cation and Labelling of C	Chemicals (GHS)	
GLP		oratory Practice	•		
GMO		odified Organism			
HCS		mmunication Standard			
HMIS		s Materials Identification Syste			
IARC		al Agency for Research on Ca	ancer		
IATA		al Air Transport Association			
IBC		te Bulk Container	<b>-</b>		
ICAO-TI		al Civil Aviation Organization-			
ICCA		al Council of Chemical Associ	lation		
ID		on number			
IMDG	Internation	al Maritime Dangerous Goods	Chamiatry (		
IUPAC		al Union of Pure and Applied			
ISO LC50		al Organization For Standardi al Concentration	zallUH		
LD50	50 % Leth				
L(E)C50	LC50 or E				
LOAEL		served adverse effect level			
LOEL		served adverse effect level			
MARPOL		al Convention for the Preventi	ion of Pollution from Shi	ps	
NFPA		ire Protection Association			
NOAEL		ed adverse effect level			
NOEC	no observe	ed effect concentration			
NOEL	no observe	ed effect level			
0. C.	open cup				
OECD		on for Economic Cooperation	and Development		
OEL		nal Exposure Limit			
OSHA		nal Safety and Health Adminis	tration		
PBT		, bioaccumulative, toxic			
PEC		effect concentration			
PNEC		no effect concentration			
RQ	Reportable				
SDS	Safety Dat				
STOT		arget Organ Toxicity			
	United Nat				
vPvB voc		stent, very bioaccumulative			
VOC	volatile or	ganic compounds			

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WHMIS WHO Workplace Hazardous Materials Information System World Health Organization