

1. Identification of the substance /preparation and of the company / undertaking
CATA 2000

Company **NORD COMPOSITES**
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2. Composition / information on ingredients

Product label name Mixture of acetylacetone peroxyde and tert butyl peroxybenzoate in solvents

This product is to be considered as a preparation in conformation to EC directives

Information on hazardous ingredients

Chemical description : Mixture of acetylacetone peroxyde and tert butyl peroxybenzoate in solvents

Composition / information on ingredients

Number	%ww	CAS-number	Chemical name
1	26.4	614-45-9	Tert Butyl peroxybenzoate
2	22.1	37187-22-7	Acetylacetone peroxyde
3	33.5	123-42-2	Diacetone alcohol
4	8.6	123-54-6	Acetylacetone

Number	CC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	210-832-2		E Xi	R2 R38 R7
2	263-884-0		O Xi	R36 R7
3	204-826-7	603-016-00-1	Xi	R36
4	204-834-0	838-029-00-0	Xn	R10 R22

Other information Balance : non hazardous ingredients

3. Hazards identification

May cause fire
Irritating to eyes

4. First aids measures

Symptoms and effects	irritating to eyes
First aid	
General	In all cases of doubt, or when symptoms persists, seek medical attention
Inhalation	Move to fresh air, rest, half upright position, loosen, seek medical advice after significant exposure
Skin	Remove contaminated clothing, wash with soap and coplous amounts of water, in case of skin eruption seek medical advice
Eye	Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse mouth. Give water to drink. Induce vomiting. Never induce vomiting in unconscious or confused. Seek medical advice.
Advice to physician	No additional information available



5. Fire fighting measures

Extinguishing media	waterspray, foam, fire-extinguishing powder, carbon dioxide, extinguish a fire with powder or carbon dioxide then apply water to prevent re-ignition.
Unsuitable extinguishing media	halpnes
Special exposure hazards	if involved in a fire, it will support combustion, in case of fire and/or explosion do not breathe fumes
Hazardous decomposition	carbon dioxide, acetylacetone, mixture of aliphatic and aromatic hydrocarbon
Combustion products	solvents, benzoic acid, tart-butanol, acetone, methane, ethane, benzene
Protective equipment	wear suitable protective clothing
Other information	Cool closed containers with water

6. Accidental release measures

Personal precautions	Avoid contact with eyes, for personal protection see section 8
Environmental precautions	Collect as much as possible in a clean container for (preferable) reuse or disposal. Do not empty into drains.
Methods for cleaning up	Absorb the remainder with e.g. vermiculite
Other information	For personal protection see section 8

7. Handling and storage

Handling	Never weight out in the storage room, keep product and emptied container away from heat and sources of ignition. No sparking tools should be used. Do not pipet by mouth. Never bring peroxide into direct contact with accelerator during processing. Weight out and add peroxide and accelerator separately.
Fire and explosion prevention	Use explosion protected equipment. Keep away from source of ignition. No smoking. Avoid shock and friction;
Storage requirement	Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Stored in accordance with local/national regulations. Store in a dry well ventilated place away from sources of heat and direct sunlight. Do not mix with peroxide accelerators. Do not mix with reducing agents. Keep container tightly closed in a cool, well-ventilated place. Keep container upright to prevent leakage. Avoid temperature exceeding + 25°C and below : -5°C.
Other information	When using do not eat, drink or smoke. Wash thoroughly after handling. Keep working clothing separately and do not take them home.

8. Exposure controls / personal protection

Engineering control	Explosion proof ventilation recommended
Exposure limits	No exposure limit has been established
Personal protection	
Respiratory	the usual precautionary measures for handling chemicals should be observed. Provided adequate ventilation.
Hand	Wear suitable gloves of neoprene or synthetic rubber
Eye	Wear eye/face protection
Skin and body	Wear suitable protective clothing. The usual precautionary measures for handling chemicals should be observed.
Other information	Laundry clothes before reuse.

9. Physical and chemical properties

Appearance	Liquid
Colour	Clear
Odour	Faint
Boiling point	not applicable
Melting point/range	-5°C (tends to under....)
Flash point	63°C (ASTM 3278/ISO3679)
Flammability	not determined
Auto-ignition temperature	> 540°C (DIN 51794)
Explosive properties	no
Explosion limits	not applicable
Oxidizing properties	not applicable
Vapour pressure	not determined
Density	1045kg/m ³ (20°C)
Bulk density	not applicable
Solubility in water	partly miscible with water
Solubility in other solvents	various organic solvents
PH value	weak acid
Partition coefficient n-octanol / water	not determined
Relative vapour density(air =1)	not determined
Viscosity	12.6mPa.s (20°C)
Active oxygen content	4.7-5.0%
Peroxide content	46.8 –49.8%
SADT	55°C. See also section 10 : other information
Specific conductivity	not determined

10. Stability and reactivity

Stability	A dangerous self-accelerating decomposition reaction and under certain circumstances, explosion or fire be accused by direct contact with incompatible substances or by thermal decomposition at and above the following temperature : +55°C.
Conditions to avoid	Violent reactions may be expected with acid, alkali, heavy and reducing agents. Avoid contact with rust. Avoid shock and friction. Do not mix with peroxide accelerators. Do not mix with reducing agents. Avoid temperature below : -5°C
Materials to avoid	Use only stainless steel 316 PVC polyethylene or glass-lined equipment.
Hazardous decomposition products	acetylacetone. Mixture of aliphatic and aromatic hydrocarbon solvents, benzole acid, tert-buthanol, acetone, methane, ethene, benzene
Other information	The SADT (self accelerating decomposition temperature) is an experimentally delved temperature at which the product in a typical package will undergo self accelerating decomposition.

11. Toxicological information

Name	Acetylacetone peroxide 33%
Acute toxicity	
- oral LD50	Rat>2000mg/kg
- dermal LD50	Rat>2000mg/kg
Irritation	
- skin	Moderately irritating
- eye	Moderately irritating
- genotoxicity	Ames test : mutagenic



Name	Di-acetone alcohol
Acute toxicity	
- oral LD50	Rat : 4000mg/kg
- dermal LD50	Rabbit 13.500 mg/kg
- inhalation LC50	Mouse 500-1900 mg/kg
Irritation	
- skin	Mildly irritating
- eye	Severely irritating
- genotoxicity	Ames test : not mutagenic

12. Ecological information

Name	Based on : tert-Butyl peroxybenzoate
Ecotoxicity	
Finch	Acute toxicity,96h-LC50 = 8.6 mg/l
Algae	72h-IC60 : 1.3mg/l
Bacteria	activated sludge respiration inhibition test EC50 = 43 mg/l
Fate	
Degradation biotic	readily biodegradable (closed bottle test)
Name	based on diacetone alcohol
Ecotoxicity	
Fish	lepomis macrochirus : 96h-L060 : 420ppm
Fate	
Degradation biotic	biodegradable
Other information	bio concentration factor (BCF) = 0.5

13. Disposal considerations

Product	probably in controlled incineration but according to local regulations. Remainder with e.g. vermiculite
Contaminated packaging	Collect for recycling or most probably controlled incineration Dilute before burning with organic solvents. Controlled incineration according to local regulations is always preferred. If not possible burn in small portions on a remote place, using a torch with a long rod to ignite the material.

14. Transport information

Land transport

ADR Class	5.2	ADR item number	3b
RID Class	5.2	RID item number	3d
TREM-Card	CEFIC TEC(R)-52G01B	UN number	3103
Proper shipping name	Organic peroxide type c, liquid : (tert-Butyl peroxybenzoate-acetyl acetone peroxide mixture)		

Sea transport

IMO/MDG code	Page 5223a	Class	5.2
Packing group	II	UN number	3103
EMS	5.2-01		
Marine pollutant	No		
Proper shipping name	Organic peroxide type c, liquid (tert-Butyl peroxybenzoate-acetyl acetone peroxide mixture)		



**NORD
COMPOSITES**

SAFETY DATA SHEET
93/112/EEC

DS 008 F
Date : 26/06/2003

Air transport

ICAO-THATA-DGR	UN number	3103
Class 5.2	Packing group	II
Proper shipping name	Organic peroxide type c, liquid (tert-Butyl peroxybenzoate-acetylacetone peroxide mixture)	

15. Regulatory information

Chemical description Mixture of acetyl acetone peroxide and tert-butyl peroxybenzoate in solvents

Labelling according to EC directives

EC number not applicable



oxidizing (O)



Irritant (Xi)

Symbol(s)

Risk(s) phrase(s)

R7. may cause fire
R36. irritating to eyes

Safety phrase(s)

S37. Keep container tightly closed in a cool place
G14. Keep away from reducing agents (e.g. amines) acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps)
S28. in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37. Wear suitable protective clothing, gloves and eye/ face protection
S60. Do not mix with peroxide-accelerators or reduced agents

16. Other information

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) and in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

This safety data sheet relates information based on our present state knowledge. It does not constitute a guarantee for product characteristics. It is the user's responsibility himself as to the suitability of such information for his own particular use.