

# MATERIAL SAFETY DATA SHEET

Issue date: 07/04

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** **BOLT & STUD FIX STF ACTIVATOR**  
**Company:** Nickerson Chemicals Limited - Dewsbury - WF12 9BQ  
**Chemical Name & Synonyms:** Dibenzoyl Peroxide paste in phthalate plasticizer and Inert Fillers.  
**For Information:** 01924 453886/461341 (9.00 AM - 5.00 PM)  
**In an Emergency:** As above

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components:	Cas Number	Percentage
Dibenzoyl Peroxide	94-36-0	<18%
Diisobutylphthalate	84-69-5	8.4%

## 3. HAZARDS IDENTIFICATION

May cause fire. May cause sensitisation by skin contact.

**Signs and Symptoms of Exposure (Acute)** May cause pain and watering on eye contact.

**Signs and Symptoms of Exposure (Possible Long Term Effects)** Repeated exposure can cause sensitisation.

## 4. FIRST AID MEASURES

*Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion.*

**Eye:** Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.  
**Skin:** Remove contaminated clothing. Wash with soap and copious amounts of water. In case of skin eruption seek medical advice.  
**Ingestion:** Do not induce vomiting because of risk of aspiration seek medical advice.  
**Inhalation:** Move to fresh air and rest. Seek medical attention after significant exposure

*First Aiders should protect themselves from exposure (Ref to Section 8).*

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, Dry powders, CO<sub>2</sub> and Foam. **Unsuitable - halones**  
**Exposure Hazards:** If involved in a fire will support combustion. In case of fire do not breathe fumes.  
**Fire Fighting Equipment:** Wear suitable protective clothing. Self contained breathing apparatus if involved in a large fire.

## 6. ACCIDENTAL RELEASE MEASURES

Scrape up and place in a suitable container. Wash area with water. Do not empty into drains.

*Refer to section 5, 8 and 13 for Protective Measures and Disposal.*

## 7. HANDLING AND STORAGE

Keep away from heat and sources of ignition.. No sparking tools should be used. Never bring into direct contact with accelerator. Store in a cool dry place. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metals compounds.

*When handling, suitable protective clothing should be worn. (Refer to Section 8)*

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

OCCUPATIONAL EXPOSURE LIMITS. 5.0 mg/m<sup>3</sup>

**Engineering:** Explosion proof ventilation recommended  
**Ventilation:** Not normally required when using small quantities  
**Respiratory:** Not required for normal use  
**Eye Protection:** Goggles if splashes can occur  
**Skin Protection:** Wear suitable gloves  
**Ingestion:** N/A during normal use

9. <u>PHYSICAL/CHEMICAL PROPERTIES</u>			
Appearance:	Coloured smooth paste	Odour:	Faint
Viscosity:	N/A	Specific Gravity:	1.50 g/cm <sup>3</sup> (20°C)
Boiling Point:	Do not distil (decomposes)	Boiling Range:	N/A
Melting Point:	Not Required	Flash Point:	Above the SADT (50°C)
Flammability:	Will support combustion if involved in a fire.	Auto-Flammability:	> 380°C
Explosive Properties:	None	Oxidising Properties:	Oxidising
Vapour Pressure:	Not determined	Evaporation Rate:	N/A
Solubility:	Partly miscible in water	pH:	Slightly acidic
Partition Coefficient:	N/A	Di-Electric Strength:	N/A
Additional Information:			
10. <u>STABILITY AND REACTIVITY</u>			
Stability:	A dangerous self accelerating decomposition reaction and under certain circumstances explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition		
Incompatibility:	Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.		
Hazardous Decomposition:	Carbon Dioxide, Benzoic Acid, Benzene, Diphenyl, Phenyl Benzoate		
Hazardous Polymerisations:	None		
11. <u>TOXICOLOGICAL INFORMATION</u> (Based on Dibenzoyl Peroxide 78% in water)			
Oral:	LD <sub>50</sub> rat > 5000 mg/kg		
Inhalation:	LD <sub>50</sub> rat > 24.3 mg/l 4 hours exposure time max.		
Eye:	Mildly irritating (5 min exposure time)		
Skin:	Non irritating (4 hours exposure time)		
12. <u>ECOLOGICAL INFORMATION</u>			
Based on Dibenzoyl Peroxide			
Fish Acute toxicity, 96 h - LC <sub>50</sub> = 2.0 mg/l (poecilia reticulata)			
Bacteria Activated sludge respiration inhibition test EC <sub>50</sub> = 35 mg/l Readily biodegradable			
13. <u>DISPOSAL CONSIDERATIONS</u>			
Dispose of according to local regulations contaminated packaging should be collected for recycling or most probably controlled incineration			
14. <u>TRANSPORT INFORMATION</u>			
ADR class 5.2 Item number 8b		RID class 5.2 Item number 8b	
UN number 3108		Trem card Cefic Tec (R) 52G01	
Proper shipping name Organic peroxide type E Solid (Dibenzoyl peroxide)			
IMO/IMDG Page 5228			
15. <u>REGULATORY INFORMATION</u>			
Labelling:	Oxidising		
Risk phrases	R7	May cause fire.	
	R43	May cause sensitisation by skin contact.	
Safety phrases	(S2)	Keep out of reach of children.	
	(S3/7/9)	Keep container tightly closed in a cool well ventilated area	
	(S14)	Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds e.g., accelerators driers metal soaps.	
	(S36/37/39)	Wear suitable protective clothing, gloves and eye/face protection.	
	(S50B)	Do not mix with Peroxide accelerators.	
	(S50C)	Do not mix with reducing agents.	
16. <u>OTHER INFORMATION</u>			
Our ref:	MSDS. Metolux Safety Data Sheet No. 160	Date of Preparation:	July 2004
		Prepared By:	P Wadsworth
The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees customers.			
NICKERSON CHEMICALS LIMITED			
MILL STREET EAST, DEWSBURY, WEST YORKSHIRE, WF12 9BQ			
TEL : 01924 453886/461341 FAX : 01924 458995			

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** **BOLT & STUD FIX STF BASE**  
**Company:** Nickerson Chemicals Limited- Dewsbury - WF12 9BQ  
**Chemical Name & Synonyms:** Hybrid acrylic resin and inert fillers.  
**For Information:** 01924 453886/461341 (9.00 AM - 5.00 PM)  
**In an Emergency:** As above

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components:	Cas Number	Percentage
t-Butyl Vinyl Benzene	1746-23-2	< 8.5%
Methacrylate Ester Mixture	109-16-0	
	868-77-9	< 5.7%
N, N Diethylaniline	91-66-7	<0.1%

## 3. HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

## 4. FIRST AID MEASURES

*Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion.*

**Eye:** Irrigate with clean water for at least 15 minutes. Seek medical attention.  
**Skin:** Remove from skin with plenty of soap and water. Remove contaminated clothing. If any irritation persists, seek medical advice.  
**Ingestion:** Drink plenty of water. Seek medical attention. DO NOT INDUCE VOMITING.  
**Inhalation:** Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.

*First Aiders should protect themselves from exposure (Ref to Section 8).*

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry powders, CO<sub>2</sub> and Foam.  
**Exposure Hazards:** Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.  
**Fire Fighting Equipment:** Wear self contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Do not discharge into sewers. Scrape up and place into a suitable container for disposal. Wash area with water.

*Refer to section 5, 8 and 13 for Protective Measures and Disposal.*

## 7. HANDLING AND STORAGE

Wear suitable protective gloves and goggles. Avoid contact with skin and eyes.  
Keep away from heat and sources of ignition. Store below 25°C in a dry well ventilated space. Store separately from peroxides.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

OCCUPATIONAL EXPOSURE LIMITS. None assigned

**Respiratory:** Avoid inhaling vapour. Use in a well ventilated space  
**Ingestion:** Unlikely during normal use.  
**Skin Protection:** Wear gloves at all times.  
**Eye Protection:** Not normally required during normal use. If splashing can occur, goggles should be worn.

## 9. PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b>	Thick coloured paste	<b>Odour:</b>	Ester like
<b>Specific Gravity:</b>	1.65 g/cm <sup>3</sup> at 20°C	<b>Viscosity:</b>	N/A
<b>Melting Point/Melting Range:</b>	N/A	<b>Boiling Point/Range:</b>	N/A
<b>Flash Point:</b>	> 80 °C	<b>Flammability:</b>	Not established
<b>Explosive Properties:</b>	Not determined	<b>Auto-Flammability:</b>	Not determined
<b>Oxidising Properties:</b>	None	<b>Vapour Pressure:</b>	N/A
<b>Evaporation Rate:</b>	N/A	<b>Solubility:</b>	Insoluble in water
<b>pH:</b>	N/A	<b>Partition Coefficient:</b>	N/A
<b>Di-Electric Strength:</b>	N/A	<b>Additional Information:</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Can polymerise (solidify) exothermically if heated, exposed to uv/sunlight or by addition of free radical initiators eg organic peroxides. Stable under normal conditions.
<b>Materials to Avoid:</b>	Reacts vigorously with strong oxidising agents and peroxides. Keep away from heat and direct sunlight.
<b>Hazardous Decomposition:</b>	Emits acrid smoke and irritating fumes when heated to decomposition.
<b>Hazardous Polymerisations:</b>	Polymerisations in a closed container can give rise to pressure, which may rupture the vessel.

## 11. TOXICOLOGICAL INFORMATION

<b>Oral:</b>	Expected by analogy to have a low order of acute oral toxicity.
<b>Inhalation:</b>	May prove irritating to eyes, nose and throat.
<b>Eye:</b>	May prove irritating.
<b>Skin:</b>	May prove irritating.

## 12. ECOLOGICAL INFORMATION

Do not discharge into drains or the environment. Contains constituents which are not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations. Small quantities may be reacted with the corresponding amount of activator. Allow to cure and dispose as solid waste.

## 14. TRANSPORT INFORMATION

**Supply label:** Not classified as dangerous goods according to transport regulations.

## 15. REGULATORY INFORMATION

<b>Labelling:</b>	Irritant		
	Risk Phrases	(R43) (R52/53)	May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
	Safety Phrases	(S2) (S24/25) (S26)  (S37/39)	Keep out of reach of children. Avoid contact with eyes and skin. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

## 16. OTHER INFORMATION

<b>Our ref:</b>	MSDS No: 159
<b>Date of Preparation:</b>	July 2004
<b>Prepared By:</b>	P Wadsworth

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