



## MATERIAL SAFETY DATA SHEET

## Shield Super Glue

**1 - IDENTIFICATION OF THE PRODUCT AND COMPANY**

PRODUCT NAME	Shield Super Glue 3g
PRODUCT CODE	SH333
APPLICATION	Cyanoacrylate adhesive
SUPPLIER AND MANUFACTURER	Shield Chemicals (Pty) Ltd No. 9 London Road, Apex, Benoni Gauteng South Africa
CONTACT NUMBERS	T) +27-11-421-7111
O/H 07h30 – 17h00 Monday – Friday	F) +27-11-421-0475
WEB ADDRESS	<a href="http://www.shieldchem.co.za">www.shieldchem.co.za</a>
E-MAIL ADDRESS	<a href="mailto:info@shieldchem.co.za">info@shieldchem.co.za</a>

**2 - HAZARDS IDENTIFICATION**

Flammable liquid (Category 4)
Eye Irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Specific target organ toxicity – single exposure (Category 3)
Acute aquatic toxicity (Category 2)
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life.

**3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Name	CAS #	Amount
Ethyl 2-cyanoacrylate	7085-85-0	90-100%
Polymethyl methacrylate	9011-14-7	0-9.5%
Hydroquinone	123-31-9	0-0.5%

**4 - FIRST AID MEASURES**

INHALATION	Remove victim from the source of exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek medical attention immediately.
INGESTION	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
SKIN CONTACT	Wash thoroughly with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If irritation persists, seek medical attention.
EYE CONTACT	Make sure to remove any contact lenses from the eyes before rinsing. Rinse thoroughly with plenty of water for 15 minutes and seek medical attention.

**5 - FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA	Use Foam, Carbon dioxide (CO <sub>2</sub> ) or dry powder extinguishers. Use water spray to cool the containers.
EXPOSURE HAZARDS	Toxic fumes are emitted
REMARKS	Wear self-contained breathing apparatus and protective clothing

**6 - ACCIDENTAL RELEASE MEASURES**

Method of disposal	Mix with inert material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a dry, clean, lidded container for disposal according to local/national regulations. Ventilate area and wash spill site.
Personal Protection	Wear appropriate protective clothing to minimize contact with skin and eyes and prevent inhalation

Environmental Precautions	Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities that a spill has occurred.
---------------------------	--

## 7 - HANDLING AND STORAGE

HANDLING	Wear appropriate protective clothing and chemical safety gloves. Avoid contact with eyes, skin and clothing. Avoid inhalation. Keep container tightly closed. Avoid prolonged or repeated exposure. Keep away from heat, sparks and flame. Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Use non-sparking tools. Incompatible: reducing agents, water, amines, alcohols, alkali metals, oxidizing agents.
STORAGE	Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: reducing agents, water, amines, alkali metals, oxidizing agents. Recommended storage temperature: 2-8°C. Sensitive to light and moisture.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Mechanical exhaust required. Safety shower and eye wash station. Use non-sparking tools.
PERSONAL PROTECTIVE EQUIPMENT	Respiratory: Government approved respirator Eyes: Wear chemical resistant safety goggles Clothing: Wear anti-static clothing Skin/Hand: Wear gloves resistant to chemicals
OTHER	No smoking, drinking and eating at working site. Wash thoroughly after handling

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless, transparent liquid
COLOUR	Colourless
ODOUR	Weak penetrating odour
SOLUBILITY	Miscible in water
FLASH POINT	83°C

## 10 - STABILITY AND REACTIVITY

STABILITY	Stable under normal temperatures and pressures
CONDITIONS TO AVOID	Heat, flames, sparks and light
MATERIALS TO AVOID	Reducing agents, water, amines, alkali metals, oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, nitrogen oxides

## 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	No data available
SKIN CORROSION/IRRITATION	Causes skin irritation
SERIOUS EYE DAMAGE/IRRITATION	Causes serious eye irritation
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	May cause respiratory irritation

## 12 - ECOLOGICAL INFORMATION

TOXICITY	Hydroquinone: Toxicity to fish LC50 – Oncorhynchus mykiss (rainbow trout) – 0.04 – 0.1 mg/l – 96,0 h Toxicity to daphnia and other aquatic invertebrates EC50 – Daphnia magna (water flea) – 0.13 mg/l – 48h Toxicity to algae EC50 – Pseudokirchneriella subcapitata (green algae) – 0.335 mg/l – 72h
PERSISTANCE AND DEGRADABILITY	Hydroquinone: Biodegradability Biotic/Aerobic – Exposure time 14 d Result: 86% - Readily biodegradable
BIOACCUMULATIVE POTENTIAL	Hydroquinone: Bioaccumulation Leuciscus idus (Golden orfe) – 3 d – 50mg/l Bioconcentration factor: 40
MOBILITY IN SOIL	

## 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environment regulations
------------------	--

**14 - TRANSPORT INFORMATION**

UN NUMBER	1993
PROPER SHIPPING NAME	Flammable liquid N.O.S.
TRANSPORT HAZARD CLASS	Combustible liquid
PACKING GROUP	III
SPECIAL PRECAUTIONS FOR USER	None Additional

**15 - REGULATORY INFORMATION**

Risk Phrases	R36/38	Irritating to the eyes & skin.
Safety Phrases	S24	Avoid contact with the skin
	S2	Keep out of reach of children

**16 - OTHER INFORMATION**

This materials safety data sheet has been compiled according to SABS 1104-1 and SABS 0265, and provides the best advice under our current state of knowledge. The user is ultimately responsible for ensuring that the requirements of the relevant legislation are complied with.

*DISCLAIMER: This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.*