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Registration Number: 2011/148738/07

SAFETY DATA SHEET (SDS)

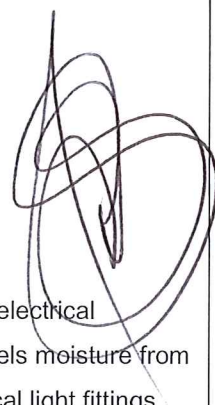
Q SUPER PROTECTIVE FILM

SAFETY DATA SHEET (SDS) according to ISO / SANS 11014:2009/2010, UN Transportation of Dangerous Goods, UN Globally Harmonized System of Classification and Labelling and EC Directives 1272/2008

SECTION 1: Identification – Chemical Product and Company

Trade Name	Q SUPER PROTECTIVE FILM
Product Code	030061
Chemical Technical Name	Aerosol
Proper Shipping Name	Not Regulated
UN Number	1950
CAS Number	Mixture
GHS Product Identifier	Protective Film
Chemical Family	Chemical Protective Rust Preventer
Recommended use of the Chemical	Super protective film protects circuit boards, electrical components and exposed connections. Repels moisture from brass hinges and hardware. Protects electrical light fittings seals, steel surfaces protects leaking skylights.
Restrictions of the Chemical	Not for personal hygiene use nor to be used by untrained persons.
Supplier Details	CRC Industries RSA (Pty) Ltd
Address	Gauteng Business Park, Triton-Leo House, 15/16 Bronssingel, Clayville Ext 20, Olifantsfontein.
Telephone Number	+27(0)87 135 5888
E-Mail	Info.sa@crcind.com / simon.smith@crcind.com
24 Hour Emergency Phone Number	+27 (0)82 874 5969

CRC Industries RSA (Pty) Ltd
PO Box 1161
Olifantsfontein
Tel: 011 452 7048



SECTION 2: Hazards Identification

GHS Classification of substances: Flamable Aerosol

Hazard Class:	2.3
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Hazard Type	Hazard Category	GHS Hazard Statement
Flammable Aerosols	Category 2	H223 Flammable Aerosol
Acute Toxicity Oral	Category 5	H302 Harmful if swallowed
Acute Toxicity Dermal	Category 2	H316 Causes skin irritation
Acute Toxicity Inhalation	Category 4	H332 Harmful if Inhaled
Respiratory Sensitizer	Category 1B	H334 May cause Allergy / Asthma Symptoms / Breathing difficulties if inhaled





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Eye Damage/Irritation	Category 2A	H318 Causes Serious eye irritation
Aquatic Acute	Acute 2	H402 Harmful to Aquatic Life
Aquatic Chronic	Category 2	H402 Harmful to Aquatic Life

The most important adverse effects to know in emergency are:-

SANS 10234:2007 GHS Label elements, including precautionary statements:



Signal word: Warning

Hazard Statement:-

H223 Flammable Aerosols

H302 Harmful if swallowed

H318 Causes serious eye damage

H316 Causes mild skin irritation

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H402 Harmful to aquatic life

Precautionary statements:-

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

P211 Do not spray on open flames or other ignition sources

P251 Pressurized container – Do not pierce or burn even after use

P280 Wear protective Gloves

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using / handling this product

P302 + P352 If on skin wash off with plenty of water

P332 + P313 If skin irritation continues, get medical attention

P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes, remove contact lenses if safe and easy to do, continue rinsing and get medical attention.

P261 + P271 avoid breathing mist, wear eye & face protection and use in well ventilated areas

P301 If swallowed and feels unwell, get medical attention.

Response:

Refer Sections 5, 6 and 8

Storage:

Refer Section 7

Special Labelling requirements

Refer to Section 14 for transport labels.

SECTION3: Composition / Information on Ingredients

Chemical Identity	Mixture			
Other means of identity	None			
Common Name, synonyms, etc.	None			
Ingredient Name	UN Number	CAS Number	%	Classification EC1272/2008
Petroleum Naphtha	-	-	10-20%	921-024-6
Butanone (Butan-2-One(Methyl) ethylketone)	159	78-93-3	40-50%	201-159-0
Xylene (Xylene, O-,M-,P- or mixed isomers)	1307	1330-20-7	1-10%	215-535-7





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Ethylene glycol	-	111-76-2	0-0.5%	203-905-0
Butanane	-	106-97-8	10-20%	203-448-7
Di-isobutyl Ketone (2,6-Dimethylpetan-4-one)	-	108-83-8	0-0.5%	203-620-1
Benzotriazole derivative	-	-	0-0.5%	400-830-7

SECTION 4: First Aid Measures

Most important symptoms/effects, and necessary measures:

Product in eye – causes serious eye damage/irritation. Flush eyes with water for 15 min whilst holding eyelids open and remove any contact lens if safe to do so. Repeat rinsing if irritation persists and get medical attention. NB Care must be taken to avoid contaminated rinsing running back into the eyes.

Product on skin – can cause skin irritation. Remove any contaminated clothing and wash affected area with running water for at least 20 min. Wash contaminated clothing and shoes thoroughly before use.

Product ingested – do not induce vomiting, get patient to rinse mouth with water and then give at least 250-300ml water/milk to drink. If vomiting occurs, wipe mouth and give more water and get medical attention. NB if the patient is losing consciousness for any reasons do NOT try to give anything by mouth!

Product inhaled or aspirated – may cause respiratory irritation. Move patient to fresh air and if any breathing difficulty persists get immediate medical advice.

SECTION 5: Fire-Fighting Measures

Product is not Combustible – Substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc). Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.

Suitable extinguishing media: dry chemical, CO₂, water spray, fog or foam

Unsuitable extinguishing material: not known

Small fires – immediate action should be to quickly put out the fire.

Large Fires – evacuate area, move containers out and away from fire if can be done safely without increasing risk. Isolate and contain fire as much as possible, and dike or use inert material form berm to contain any spilled materials and run-off water for later disposal. NB need to prevent run-off containing product from contaminating any water source as toxic to aquatic life.

Special Hazards – Use water to keep containers cool to prevent pressure build up and possible explosion which could be caused through pressure build up.

Protective Clothing – Wear full protective clothing and self-contained, positive breathing apparatus. For large fires, get professional emergency response where very large.

Refer to the ERG – Emergency Response Guide 2016 and SANS 10232 – 3

NB: Prompt actions can prevent spread of small fires but large fires involving chemicals require professional Emergency Response.





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SECTION 6: Accidental Release Measures

As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Keep unauthorized personnel away. You should stay upwind, uphill and/or upstream. Ventilate enclosed areas.

Personal precautions – Wear personal protection before attempting to respond and contain or cleanup spills. Refer to Section 8.

Environmental precautions – Do not dispose large volumes of any chemical into watercourses or sewers, as components are environmental hazards.

Clean-up methods

Small Spills: Wear protective clothing and gloves to contain and recover any spills. Wash contaminated area with plenty of water to remove any residues. Spill may be neutralized with soda ash to pH between 6 and 9; Caution in case of any fumes generated.

Large Spills: Stop source of leaks if possible, and prevent entry into waterways, sewers or basements. Seal off area and contain by diking with soil or other inert material. Recover as much as possible and then apply an inert material such as sawdust or commercial absorbent to absorb the remainder. Collect in suitable containers and then wash and scrub away the residue.

GHS Disposal Precautionary Statement – P501 dispose of spilt product, waste and containers in accordance with SA National and/or regional Regulations, refer National Environmental Management Waste Act –NEM: WA, it's Waste Information Centre sawic.environment.gov.za

SECTION 7: Handling and Storage

Precautions for safe handling – wear appropriate personal protective equipment see section 8. Eating, drinking and smoking shall be prohibited in areas where chemicals are handled, stored or processed. Workers must wash hands before eating, drinking or smoking to remove any chemicals that could be ingested or inhaled and should remove contaminated clothing and protective equipment before entering eating areas.

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure – obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilation, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Conditions for Safe Storage – Store in accordance with local regulations. Store away from; direct sunlight, in a dry, cool, well-ventilated area, incompatible materials (see section 10), food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Use appropriate containment to avoid environmental contamination.

Product Shelf Life – 5 years from date of manufacture.

SECTION 8: Exposure limit values / Exposure controls

Butane	WEL 8-hr limit ppm: 600 WEL 15min limit ppm: 750	WEL 8-hr limit mg/m ³ : 1450 WEL 15min limit mg/m ³ : 1810
Butanone (Butan-2-one (Methyl ethyl ketone))	WEL 8-hr limit ppm: 200 WEL 15min limit ppm: 300	WEL 8-hr limit mg/m ³ : 600 WEL 15min limit mg/m ³ : 899
Di-isobutyl ketone (2,6-Dimethylheptan-4-one)	WEL 8-hr limit ppm: 25 WEL 15min limit ppm: -	WEL 8-hr limit mg/m ³ : 148 WEL 15min limit mg/m ³ : -





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Ethylen glycol monobutyl ether (2-Butoxyethanol)	WEL 8-hr limit ppm: 25 WEL 15min limit ppm: 50	WEL 8-hr limit mg/m ³ : - WEL 15min limit mg/m ³ : -
Xylene (Xylene,o-,m-,p-ormixed isomers)	WEL 8-hr limit ppm: 50 WEL 15min limit ppm: 100	WEL 8-hr limit mg/m ³ : 220 WEL 15min limit mg/m ³ : 441

Engineering control measures: Local ventilation should be available if mists are produced.

Personal protection – respiratory: Unlike route of exposure, but if mists are encountered could be irritating to the respiratory tract, use NIOSH approved respirator.





Personal protection – hand: skin irritant thus avoid contact with this chemical. Wear rubber gloves.

Personal protection – eye: Eye irritant thus wear safety glasses with side shields at all times. Contact lenses should not be worn.

Personal protection – skin: Skin irritant thus wear overalls, safety shoes/boots and apron.

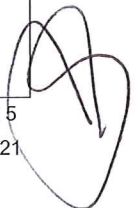
Personal protection – ingestion: Restrict access to unauthorized persons. Wash hands after contact.

Other protection: A safety shower and eye wash facility should be nearby and ready for use.

Gloves	Eye Protection	Running Water	Dust Masks
Rubber/PVC	Goggles/Shield	Access	Dust Mask
			

SECTION 9: Physical and Chemical Properties

Appearance	Aqueous Solution
Odour	Characteristic
Odour Threshold	Not Known
Ph (of diluted product)	7-8
Initial boiling point / range	100°C
Melting / Freezing point / range	<0°C
Flash point	>100°C
Evaporation rate	No data available
Explosive Properties	Not Applicable
Oxidizing Properties	N/A
Flammability (Solid, gas)	N/A
Vapor pressure & Density	Not Determined
Fat Solubility	No data available
Partition coefficient	No data available
Auto Ignition Temperature	N/A
Viscosity	18000 mPas (Cone & Plate)
VOC (Volatile by volume)	80g/l





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Solubility	Miscible in water
Conductivity	N/A
Surface tension	No data available
Specific Gravity	1–1.1 g/cm ³
Gas group	Not Determined

SECTION 10: Stability and Reactivity

Chemical Stability	Product is stable under normal operating and temperature Conditions.
Reactivity	No significant Hazard
Conditions to Avoid	Direct sunlight, poor ventilation and high temperatures
Incompatible Materials	None known
Thermal decomposition products	Burning produces irritation, toxic and obnoxious fumes

SECTION 11: Toxicological Information

Acute toxicity	Results	Species	Dose/Exposure	Caution
Oral	Acute Cat 4	Calculated - Rat	LD ₅₀ 50>10000mg/kg	Toxic if swallowed
Dermal	Acute Cat 5	Calculated - Rat	LD ₅₀ 50>5000mg/kg	May be Harmful if contact with skin
Inhalation	Acute Cat 4	Calculated - Rabbit	LD ₅₀ 50>5000mg/kg	Avoid Inhaling Mists

Skin Corrosion / Irritation	Category 3
Eye Damage / Irritation	Category 2B
Respiratory Sensitizer	Category 1B
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B
STOT Specific Target Organ Toxicity Single Exposure	Category 3
Aspiration Hazard	Category 2





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SECTION 12: Ecological Information

GHS – EU Group Classification, and C & L Inventory:

Hazardous to Aquatic Environment	
Aquatic Toxicity	Toxic to Aquatic life
Acute (Short Term)	No significant Hazard
Chronic (Long Term)	No significant Hazard
Hazardous to the ozone layer	
Biodegradability	No Data
Bio-accumulation	No Data
Mobility	No Data

SECTION 13: Disposal considerations

Disposal methods

Disposal must be made in accordance with the applicable National and Regulations Government regulations at approved and permitted chemical disposal sites – refer to the SA National Environmental Management Waste Act – NEM: WA, it's Regulations and local by-laws. This informs permitted Waste Facilities and Service providers see the South African Waste Information Centre sawic.environment.gov.za

Disposal of Packaging

Packaging's and containers, even those that have been emptied, will retain product residue and vapours, handle empty containers as if they were full. Remove all possible traces of product and wash prior to disposal of packaging and containers. Dispose in compliance with Regulations – see above and an Industries Best Practice, always observe and comply with hazard warnings.

SECTION 14: Transport information

	SANS 10228:2012	IMDG	IATA
UN Number	UN1950	UN1950	UN1950
UN Proper shipping name	Aerosols	Aerosols. Marine pollutant (tetrachloroethylene, octane)	Aerosols, Flammable, containing substances in Division 6.1, Packing Group III
Transport Class	2 (6.1) 	2.1 	2.1 (6.1)
Packing Group	-	-	-
Environmental Hazards	Yes	Yes	Yes
Special Precautions for users	None	None	None
Additional Information		Emergency schedules (EmS) F-D, S-U	Passenger and Cargo Aircraft Quantity limitation: 75kg Packaging instructions: 203 Cargo Aircraft Only





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			Quantity limitation: 150kg Packaging instructions: 203 Limited Quantities Passenger Aircraft quantity limitation: 30kg Packaging instructions: Y203
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SECTION 15: Regulatory information

Safety, Health and Environmental Regulations Specific for the Product

No known specific and/or regional regulations applicable to this product (Including its ingredients).

SECTION 16: Other Information

ECHA – European Chemical Agency website, Chemical information, C&L Inventory, Chemicals of Very High Concern (SVHCs) and Chemicals for Community Rolling Action Plan (CoRAP)

ERG 2016 Transport Canada and US Dept Transportation PHMSA – Pipeline and Hazardous Materials Safety Administration.

Other relevant information including information on preparation and revision of the SDS – ISO 11014:2009 Safety Data Sheets for Chemical Products – content and order of sections adopted as SANS 11014:2010

UN Recommendations for Transport of Dangerous Goods Model Regulations commonly known as the **TDG “Orange Books”** 18th revision 2013 currently in effect, 19th revision published June 2015.

UN Globally Harmonized System of Classification and Labelling of Chemicals – GHS commonly known as the **GHS “purple book”** 5th revision 2013 in effect, 6th revision published July 2015.

IMDG – International Maritime Dangerous Goods Code, 2014 edition, amendment 37-14

IATA Technical Regulations 56th edition, January 2015.

EXCLUSION OF LIABILITY

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication; however no guarantee is made to its accuracy. The information given is prepared only as guidance for safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials or in any process, unless specified in this Safety Data Sheet.