

SAFETY DATA SHEET

Item Code: AC1078 & AC1080

Section 1.	Identification of the material and the supplier
------------	---

Item Code:	AC1078 & AC1080
Product:	NSC Beta Plus Solvent Cement Type P
Product Use:	Adhesive
New Zealand Supplier:	Realcold Ltd
Address:	9 Prescott Street Penrose, Auckland
Telephone:	09 526 5700
Fax Number:	09 526 5721
Emergency Telephone:	09 526 5700 0800 766 764 (National Poison Centre)
Manufacturer:	National Start & Chemical, 5-7 Averton Place, East Tamaki
Date of MSDS Preparation:	14 March 2017 – ver 2

Section 2.	Hazards Identification
------------	------------------------

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

Group Standard & ERMA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

Pictograms



Flammable



Toxic



Chronic

HSNO Class.	Hazard Code	Hazard Statement	EU Risk Phrases
-------------	-------------	------------------	-----------------

3.1B	H225	Highly flammable liquid and vapour.	R11
6.3B	H316	Causes mild skin irritation.	R38
6.4A	H319	Causes serious eye irritation.	R36
6.9B	H373	May cause damage to organs	R48

Prevention Code	Prevention Statement
-----------------	----------------------

P103	Read label before use.
P104	Read safety data sheet before use
P210	Keep away from heat, open flames and hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.

P241	Use explosion-proof electrical/ventilating/lighting/...
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray*.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing including gloves and goggles

Response Code Response Statement

P314	Get medical advice/attention if you feel unwell.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry agent, carbon dioxide or foam for extinction.

Storage Code Storage Statement

P403 + P235	Store in a well-ventilated place. Keep cool.
-------------	--

Disposal Code Disposal Statement

P501	Dispose of according to local regulations
------	---

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Cyclohexanone	10-60%	108-94-1
Methyl Ethyl Ketone (mek)	10-60%	78-93-3
Non hazardous ingredients	Remainder	Not Available

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
If on Skin	Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance
If Swallowed	If swallowed, call a physician immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Section 5. Fire Fighting Measures

Hazard Type	Highly Flammable
Hazards from decomposition products	Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.
Suitable Extinguishing media	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
Precautions for firefighters and special protective clothing	Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
HAZCHEM CODE	3YE

Section 6. Accidental Release Measures

If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, butyl gloves, a Type A (Organic vapour) respirator (or Full-face Air-line respirator in poorly ventilated areas), coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate all heat and ignition sources. Absorb spill with sand or similar, collect and place in sealable containers for disposal.

Section 7. Handling and Storage

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Storage Store in cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (eg sulphuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Cyclohexanone		25	100		
Methyl ethyl ketone (MEK)		150		300	

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering

Product Name: NSC Beta Plus Solvent Cement Type P Item No: AC1078 & AC1080 Issued by: Realcold Ltd
Date of MSDS: 20 December 2011 Tel: 64 9 526 5700

Controls Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

Personal Protection Wear splash-proof goggles, butyl gloves and coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator.

Section 9 Physical and Chemical Properties

Appearance	Clear Liquid
Odour	Solvent Odour
Flash Point	-15°C
Boiling Point	66°C
Lower & Upper Flammability Limits	1.7 – 10.9%
Auto-ignition Temperature	Not available
Percent Volatile	80%
Specific Gravity	1.0
Solubility in Water	Insoluble

Section 10. Stability and Reactivity

Stability of Substance	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials	Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), heat and ignition sources.
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

Section 11 Toxicological Information

Cyclohexanone Cas No [108-94-1]	LC50 (Inhalation): 8000 ppm/4 hours (rat) LD50 (Ingestion): 1400 mg/kg (mouse) LD50 (Skin): 948 mg/kg (rabbit)
Methyl Ethyl Ketone (mek) [78-93-3]	LC50 (Inhalation): 23500 mg/kg (rat) LD50 (Ingestion): 2737 mg/kg (rat) LD50 (Skin): 6480 mg/kg (rabbit)

This product has the potential to cause adverse health effects. Use safe work practices to Avoid eye or skin contact and vapour inhalation. May increase the risk of nerve damage (peripheral neuropathy, with weakness in hands and feet) when used in combination with certain other solvents (e.g. n-hexane).

<u>Eye</u>	Exposure may result in lacrimation, irritation, pain, redness, conjunctivitis and possible corneal burns with prolonged contact.
<u>Inhalation</u>	Over exposure may result in mucous membrane irritation of the nose and throat, coughing, loss of appetite, nausea and vomiting. At high levels; breathing difficulties, dizziness, drowsiness, pulmonary oedema and unconsciousness.
<u>Skin</u>	Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.
<u>Ingestion</u>	Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue,

dizziness, drowsiness and unconsciousness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Section 12. Ecotoxicological Information

Environment

Methyl ethyl ketone (MEK) vapour in the atmosphere will degrade primarily by reaction with photochemically produced hydroxyl radicals. MEK will volatilise from the soil and water surfaces and is highly mobile with in soil.

MEK will not bioconcentrate and is rapidly biodegradable.

Ecotoxicity

Not expected to be ecotoxic.

Persistence / Degradability

The solvent in this product is readily biodegradable. The remainder of the product is expected to biodegrade slowly.

Mobility

Partially miscible with water. Similar density to water.

Section 13. Disposal Considerations

Waste Disposal	Wearing the protective equipment outlined, ensure all ignition sources are extinguished. For small quantities, absorb on paper, sand or similar and evaporate under a fume cupboard or open area. For large volumes, atomise into incinerator (mixing with more flammable solvent if required) or recycle by gravimetric separation, distilling & reusing. Contact the manufacturer for additional information if required.
Legislation	Dispose of in accordance with relevant local legislation.

Section 14 Transport Information

Classified as a Dangerous Good for transport

Road and Rail Transport (in NZ ; NZS 5433:2007)

UN No:	1133
Class-primary	3
Packing Group	1
Proper Shipping Name:	Adhesives containing Flammable Liquid

Air Transport

UN No:	1133
Class-primary	3
Packing Group	1
Proper Shipping Name:	Adhesives containing Flammable Liquid

Marine Transport

UN No:	1133
Class-primary	3
Packing Group	1
Proper Shipping Name:	Adhesives containing Flammable Liquid

Section 15 Regulatory Information

ERMA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

HSNO Classification: 3.1B, 6.3B, 6.4A, 6.9B

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	250L \geq if container \geq 5L 500L \geq if container \leq 5L
Location Certificate	100L ($>$ 5L), 250L ($<$ 5L); 50L open.
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250L
Emergency Response Plan trigger Quantities	1000L

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

Issue Date: 20 December 2011

Review Date: 20 December 2016