



**SAFETY DATA SHEET  
PERMA-CO CO-INJECTION**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME PERMA-CO CO-INJECTION  
 PRODUCT NO. 350019  
 SUPPLIER Dodge Company Ltd,  
 Units 11/15 Ardglen Industrial  
 Estate,  
 Whitchurch, Hampshire,  
 RG28 7BB, United Kingdom  
 44 (0)1256-893883  
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**2 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
METHANOL	200-659-6	67-56-1	10-30%	F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

**3 HAZARDS IDENTIFICATION**

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION T;R39/23/24/25. Xn;R20/21/22. R10.

**4 FIRST-AID MEASURES**

**INHALATION**

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

**INGESTION**

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

**SKIN CONTACT**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

**EYE CONTACT**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

**SPECIFIC HAZARDS**

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO2).

**6 ACCIDENTAL RELEASE MEASURES**

**SPILL CLEAN UP METHODS**

Wear necessary protective equipment. Ventilate well. Stop leak if possible without risk. DO NOT touch spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Wash thoroughly after dealing with a spillage.

**7 HANDLING AND STORAGE**

**PERMA-CO CO-INJECTION****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Provide good ventilation. Avoid inhalation of vapours.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Toxic storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**HAND PROTECTION**

Use protective gloves.

**EYE PROTECTION**

Use eye protection.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Light (or pale) Pink Orange		
ODOUR	Mild (or faint). Perfume scent		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	88-91 760 mm Hg	RELATIVE DENSITY	0.980-0.996 @ 20 °c
VAPOUR DENSITY (air=1)	>1	EVAPORATION RATE	<1 BuAc=1
VOLATILE BY VOL. (%)	98	pH-VALUE, CONC. SOLUTION	8.5-9.5
FLASH POINT (°C)	42 CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	6
FLAMMABILITY LIMIT - UPPER(%)	36.5		

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid contact with acids and alkalis. Avoid contact with strong oxidisers. Avoid contact with strong reducing agents.

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Harmful by inhalation. Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

**INGESTION**

Harmful if swallowed. May cause stomach pain or vomiting.

**PERMA-CO CO-INJECTION**

**SKIN CONTACT**

Prolonged contact may cause dryness of the skin.

**EYE CONTACT**

Spray and vapour in the eyes may cause irritation and smarting.

**12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

Not known.

**13 DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**



UK ROAD CLASS	3		
PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (METHANOL)		
UN NO. ROAD	1993	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	HAZARD No. (ADR)	30
ADR LABEL NO.	3	HAZCHEM CODE	3Y
CEFIC TEC(R) NO.	30GF1-III, 30GF1-sp	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	1993
IMDG CLASS	3	IMDG PAGE NO.	3
IMDG PACK GR.	III	EMS	F-E, S-E
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1993	AIR CLASS	3
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

**LABELLING**



Toxic

**CONTAINS**

METHANOL

**RISK PHRASES**

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R10	Flammable.

**SAFETY PHRASES**

S27	Take off immediately all contaminated clothing.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S36/37	Wear suitable protective clothing and gloves.
S1/2	Keep locked up and out of the reach of children.

**PERMA-CO CO-INJECTION**

S60 This material and its container must be disposed of as hazardous waste.  
P11 Restricted to professional users.

## ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

## EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

**16 OTHER INFORMATION**

## INFORMATION SOURCES

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

REVISION DATE May 2007

## RISK PHRASES IN FULL

R11 Highly flammable.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

## DISCLAIMER

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