

C.H.I.P. HEALTH & SAFETY DATA SHEET
CUTTING & TAPPING FLUID/AEROSOL VERSION

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: CT-90 CUTTING/TAPPING FLUID.

INTENDED USE: CT-90 IS AN EXTREME PRESSURE RATED LUBRICANT WHICH IS SPECIALLY FORMULATED TO AID THE REMOVAL OF METAL SWARF AND CUT CHIP DEBRIS FROM METAL SURFACES. IT IS IDEAL FOR TAPPING/REAMING/DRILLING OPERATIONS AND WILL DRAMATICALLY REDUCE THE EFFORT REQUIRED TO CUT THREADS IN HARD METALS. PARTICULARLY EFFECTIVE ON STAINLESS STEEL AND CERAMICS. CUT FINISH WILL BE IMPROVED IF CT-90 IS APPLIED PRIOR TO AND DURING THE CUTTING OPERATION. DUE TO THE ACTIVE NATURE OF THE ADDITIVES IN CT-90 IT MAY STAIN SOME YELLOW METALS. CT-90 IS NOT MISCIBLE WITH WATER. CT-90 CAN BE REMOVED BY MOST SOLVENT DEGREASING FLUIDS OR HOT WATER AND DETERGENT. CT-90 IS PARTICULARLY RECOMMENDED FOR PIPE THREADING WHERE THE RISK OF THREADWALL DEFORMATION IS REDUCED.

MANUFACTURER:

Action Can Ltd.,
Dixon Close,
Old Boston Trading Estate,
Haydock, St. Helens,
Merseyside. WA11 9SF
Tel: 01942 713667 Fax: 01942 716235

SUPPLIER:

2. COMPOSITION/INFORMATION ON INGREDIENTS-NON-HAZARDOUS INGREDIENTS MAY NOT BE LISTED:

INGREDIENTS:	CAS NO:	EINECS NR.:	CLASSIFICATION:	CONTENTS
Propane	74-98-6	200-827-9	F+; R12	10-30%
Isobutane	75-28-5	200-857-2	F+; R12	1-5%
Mineral Oil (refined)	64742-52-5	265-155-0	-Not classified	70-100%
Butane	106-97-8	203-448-7	F+; R12	5-10%

The full text for all R-Phrases are displayed in Section 16.

3. HAZARDS IDENTIFICATION:

Extremely Flammable. (refers to aerosol propellant only)
Classification: F+;R12

4. FIRST AID MEASURES:

GENERAL: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.

SKIN CONTACT: Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use: Powder. Dry chemicals, sand, and dolomite etc., Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEAN-UP METHODS: Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped., evacuate area.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS: Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

NAME	STD	LT - ppm	LT-mg/m3	ST-ppm	ST- mg/m3
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating
BUTANE	OES	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3
ISOBUTANE	OES	800 ppm		800 ppm	

INGREDIENT COMMENTS:

OES = Occupational Exposure Standard. MEL = Maximum Exposure Limit.

PROTECTIVE EQUIPMENT:

If using this product in an industrial environment protective gloves and safety goggles are advised as good practice.

ENGINEERING MEASURES:	Provide adequate general and local exhaust ventilation.
RESPIRATORY EQUIPMENT:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended Occupation Exposure Limited. Use chemical cartridge protection with appropriate cartridge.
HAND PROTECTION:	Use protective gloves.
EYE PROTECTION:	Wear approved chemical safety goggles where eye exposure is reasonably probable.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possibility of liquid 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. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Aerosol
COLOUR:	Light (or pale)
ODOUR/TASTE:	Odourless
SOLUBILITY DESCRIPTION:	Insoluble in water
FLAMMABILITY LIMIT - LOWER (%):	0.8
FLAMMABILITY LIMITED - UPPER (%)	0.9

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal temperature conditions.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon Dioxide (CO ²).

11. TOXICOLOGICAL INFORMATION:

INHALATION:	May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.
INGESTION:	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.

SKIN: Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYES: Irritating to eyes. May cause chemical eye burns.

ROUTE OF ENTRY: Inhalation. Skin and / or eye contact.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION: Dangerous for the environment if discharged into watercourses

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Empty containers must not be burned because of explosion hazard. Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION:

FLAMMABLE GAS

UK ROAD CLASS	2		
PROPER SHIPPING NAME	AEROSOLS		
UN NO. ROAD	1950	UK ROAD PACK GR.	N/A
ADR CLASS NO.	2	ADR CLASS	CLASS 2: GASES
ADR PACK GROUP	N/A	ADR LABEL NO.	2.1
CEFIC TEC(R) NO.	20G5F	RID CLASS NO.	2
RID PACK GROUP	N/A	UN NO. SEA	1950
IMDG CLASS	2	IMDG PACK GR.	N/A
EMS	F-D, S-U	MFAG	SEE GUIDE
MARINE POLLUTANT	No.	UN NO. AIR	1950
ICAO CLASS	2.1	AIR PACK GR.	N/A

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY: EXTREMELY FLAMMABLE

RISK PHRASES: R12 EXTREMELY FLAMMABLE

SAFETY PHRASES: S2 KEEP OUT OF THE REACH OF CHILDREN
 S16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING
 S51 USE ONLY IN WELL - VENTILATED AREAS.
 S23 DO NOT BREATH VAPOUR/SPRAY

UK REGULATORY REFERENCES:

The Control of Substances Hazardous to Health Regulations 2002.

Chemicals (Hazard Information & Packing) Regulations 2002.

STATUTORY INSTRUMENTS:

Control of Substances Hazardous to Health.

Chemicals (Hazard Information and Packing) Regulations.

APPROVED CODE OF PRACTICE:

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES:

Occupational Exposure Limited EH40

Introduction to Local Exhaust Ventilation HS(G)37.

Chip for Everyone HSG (108).

16. OTHER INFORMATION:

REVISION DATE	JULY 2005
REV. No./REPL.SDS GENERATE	2
R12	EXTREMELY FLAMMABLE

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 as 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.