

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME CARNOY'S FLUID

PRODUCT CODE 64239x

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2. HAZARDS IDENTIFICATION

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

Flammable Liquid (Category 2)	H225
Acute Toxicity – Oral (Category 4)	H302
Skin Irritation (Category 2)	H315
Serious Eye Irritation (Category 2A)	H319
Carcinogenicity (Category 2)	H351
Specific Target Organ Toxicity – Single Exposure (Category 2)	H371
Specific Target Organ Toxicity – Repeated Exposure (Category 2)	H373

LABELLING ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

DANGER



Hazard statement(s)

H225	Highly Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H371	May cause damage to organs
H373	Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces — No smoking
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands / skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
ETHANOL	200-578-6	64-17-5	50-60%	Flam. Liq. 2 H225 F;R11
CHLOROFORM	200-663-8	67-66-3	25-35%	Acute Tox. 4, Skin Irrit. 2, Carc. 2, STOT RE 2 H302 H315 H351 H373 Xn; R22 R38 R40 R48/20/22
ACETIC ACID	200-580-7	64-19-7	10-25%	Flam. Liq. 3, Skin Corr. 1A H226 H314 R10 C;R35
METHANOL	200-659-6	67-56-1	1-3%	Flam. Liq. 2; Acute Tox. 3; STOT SE 1 H225 H301 H311 H331 H370 F+; R11 T; R23/24/25 R39/23/24/25

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention immediately. Show the label or this document to the physician.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. If symptoms occur seek medical attention.

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: Dry chemical, Alcohol-resistant foam, Water spray, or Carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May travel considerable distance to source of ignition and flash back. May form explosive or toxic mixtures with air. Vapour explosion and poison hazard indoors, outdoors and in sewers. Forms harmful carbon oxides on combustion.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this SDS. Avoid breathing vapours or mists. Ensure adequate ventilation. Remove sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to explosive concentrations.

ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Fire Brigade and Local authority must be informed if this happens as a potential explosive hazard may be created. Stop leak if possible without risk.

SPILL CLEAN-UP METHODS

Provide ventilation and confine spill. Do not allow runoff to sewer. Inform Authorities if large amounts are involved. Absorb with vermiculite, dry sand or earth. Shovel up residue and collect for authorised disposal (see section 13). Flush area with plenty of water.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber and coatings.

STORAGE CLASS

Flammable liquid storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	8h TWA		STEL	
ETHANOL	WEL	1000 ppm	1920 mg/m ³		
CHLOROFORM	WEL	2 ppm	10 mg/m ³		
METHANOL	WEL (skin)	200 ppm	260 mg/m ³	250 ppm	333 mg/m ³
ACETIC ACID	WEL	10 ppm	25 mg/m ³	15 ppm	35 mg/m ³

WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Provide explosion-proof ventilation for high concentrations.

PROTECTIVE EQUIPMENT



HAND PROTECTION

Use protective gloves made of: Butyl rubber (immersion protection) or Nitrile rubber (splash protection). The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing is probable.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high vapour levels are likely.

OTHER PROTECTION

Provide eyewash station.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless Liquid
ODOUR	Pungent (Acetic acid, Chloroform)
(SOLUBILITY) / MISCIBLE WITH:	Water; Ethanol; Ether; Benzene; Organic solvents
BOILING POINT	~ 70 °C
SPECIFIC GRAVITY	~ 1.0 @ 20 °C

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Extremes of temperature, direct sunlight.

INCOMPATIBLE MATERIALS

Strong oxidisers, strong reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO₂) are formed.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE (CHLOROFORM)

LD 50	Oral, Rat	695 mg/kg
LC 50	Inhalation, Rat	4 h – 47,700 ppm
LD50	Dermal, Rabbit	>20,000 mg/kg

CARCINOGENICITY

IARC – Group 2B: Possibly Carcinogenic to humans (Chloroform)

INHALATION

Harmful by inhalation. Causes respiratory tract irritation.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Harmful if absorbed through the skin. Causes skin irritation.

EYE CONTACT

Causes serious eye irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	1986	3 (6.1)	II	Alcohols, flammable, toxic, n.o.s.
<u>IATA</u>	1986	3 (6.1)	II	Alcohols, flammable, toxic, n.o.s.
<u>IMDG</u>	1986	3 (6.1)	II	Alcohols, flammable, toxic, n.o.s.

SIGNAGE



ENVIRONMENTAL HAZARDS

RID / ADR	No
IATA	No
IMDG	No

15. REGULATORY INFORMATION

STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.
Workplace Exposure Limits EH40/2011.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION INFORMATION

Revision No.	05
Revision Date	10/2015
Comments	CHIP regulations removed
Replaces Document Generated	04/2013

HAZARD STATEMENTS IN FULL

H225	Highly Flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H351	Suspected of causing cancer
H370	Causes damage to organs
H371	May cause damage to organs
H373	Causes damage to organs through prolonged or repeated exposure