

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME BOUIN'S FLUID (MODIFIED) 20:5:1

PRODUCT CODE 64196x

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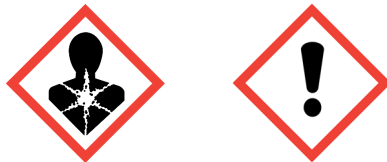
## 2. HAZARDS IDENTIFICATION

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

Acute toxicity, Oral (Category 3)	H302
Skin Irritation (Category 2)	H315
Eye Irritation (Category 2)	H319
Skin Sensitisation (Category 1)	H317
Carcinogenicity (Category 2)	H351
Specific target organ toxicity - single exposure (Category 3)	H335

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

WARNING



### Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
EUH001	Explosive when dry

### Precautionary statement(s)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**CONTINUED OVERLEAF**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
FORMALDEHYDE	200-001-8	50-00-0	5-25%	Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Carc. 2; H301 + H311 + H331, H314, H317, H351
ACETIC ACID	200-580-7	64-19-7	1-5%	Flam. Liq. 3, Skin Corr. 1A H226 H314
METHANOL	200-659-6	67-56-1	0-3%	Flam. Liq. 2; Acute Tox. 3; STOT SE 1 H225 H301 H311 H331 H370
PICRIC ACID	201-865-9	88-89-1	0-1%	Expl. 1.1; Acute Tox. 3; H201 H301 H311 H331

### 4. FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

#### INGESTION

Do not induce vomiting. Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Get medical attention.

#### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. 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.

### 5. FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

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

#### PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel to a safe area. Avoid breathing vapours, mist or dust. Ensure adequate ventilation.

#### ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses. Stop further spillage if possible without risk.

## SPILL CLEAN-UP METHODS

Sweep up into bag and hold for hazardous disposal. Avoid raising dust. Flush area with water – do not allow water to enter drains. Absorb with disposable towels and hold for hazardous disposal – see section 13.

## 7. HANDLING & STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Provide adequate exhaust function where dust is likely.

### STORAGE CLASS

Chemical storage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	8h TWA		STEL	
FORMALDEHYDE	WEL	2 ppm	2.5 mg/m <sup>3</sup>	2 ppm	2.5 mg/m <sup>3</sup>
METHANOL	WEL (skin)	200 ppm	260 mg/m <sup>3</sup>	250 ppm	333 mg/m <sup>3</sup>
ACETIC ACID	WEL	10 ppm	25 mg/m <sup>3</sup>	15 ppm	35 mg/m <sup>3</sup>
PICRIC ACID	WEL (skin)		0.1 mg/m <sup>3</sup>		0.3 mg/m <sup>3</sup>

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

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### PROTECTIVE EQUIPMENT



### HAND PROTECTION

Use protective gloves. 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 splashing is 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	Yellow liquid
ODOUR	None
SOLUBILITY / MISCIBLE WITH	Water, ethanol

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## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Picric acid forms salts with many metals, many of which are sensitive to heat, friction or impact. Do not allow into contact with metals Do not allow to become dry.

### INCOMPATIBLE MATERIALS

Strong oxidising agents, strong bases, reducing agents, heavy metals, heavy metal salts, ammonia.

### HAZARDOUS DECOMPOSITION PRODUCTS

No data

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## 11. TOXICOLOGICAL INFORMATION

### CARCINOGENICITY

IARC Group 1 – Carcinogenic to Humans (Formaldehyde)

### INHALATION

May be harmful if inhaled. May cause respiratory tract irritation.

### INGESTION

Harmful if swallowed.

### SKIN CONTACT

May be harmful if absorbed through skin. Cause skin irritation. Chronic exposure may cause skin sensitisation.

### EYE CONTACT

Causes serious eye irritation.

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## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment; however, release to the environment should be avoided.

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## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

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

## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID/ADR</u>	<i>Not regarded as hazardous for transport</i>			
<u>IATA</u>				
<u>IMDG</u>				

## 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.	04
Revision Date	10/2015
Comments	CHIP regulations removed
Replaces Document Generated	03/2013

### HAZARD STATEMENTS IN FULL

H201	Explosive; mass explosion hazard
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
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H370	Causes damage to organs
EUH001	Explosive when dry