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Information Sheet				
SECTION 1. Identification of the substance/mixture and of the company/undertaking				
	stance/mixture and or the company/under	taking		
1.1. Product identifier Code:	411 00 20320-6350 411 00 20330-6351			
Product name	TRACKING LIQUID FOR R1234yf			
1.2. Relevant identified uses of the substance or mixture and uses advised against         Intended use       Fluorescent liquid for leak detection				
1.3. Details of the supplier of the safety data sheet				
Name Full address District and Country	Meccanocar Italia S.r.I. Via San Francesco, 22 56033 Capannoli (PI) Italy			
	Tel. +39 0587 609433			
	Fax +39 0587 607145			
e-mail address of the competent person				
responsible for the Safety Data Sheet	moreno.meini@meccanocar.it			
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	National Poisons Information Service: +44 121 507 4123			

# SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). Hazard classification and indication:

#### 2.2. Label elements

Hazard pictograms:	
Signal words:	
Hazard statements:	
Precautionary statements:	

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This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### **SECTION 3. Composition/information on ingredients**

#### 3.1. Substances

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

#### 4.2. Most important symptoms and effects, both acute and delayed

No episodes of damage to health ascribable to the product have been reported.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

# GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Information not available

### 8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION None required.

SKIN PROTECTION None required.

EYE PROTECTION

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None required.

RESPIRATORY PROTECTION None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	yellow
Odour	typical
Odour threshold	Not available
рН	5,5-7,5
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	225 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	partially miscible
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	103,4 CcSt
Explosive properties	Not available
Oxidising properties	Not available

#### 9.2. Other information

Information not available

### **SECTION 10. Stability and reactivity**

10.1. Reactivity

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There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

Does not meet the classification criteria for this hazard class

**SKIN CORROSION / IRRITATION** 

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

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Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### **SECTION 12. Ecological information**

12.1. Toxicity

Information not available

#### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

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#### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

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SECTION 16. Other information	
EGEND: ADD: European Agreement concerning the corrigge of Departure goods by Bood	
ADR: European Agreement concerning the carriage of Dangerous goods by Road CAS NUMBER: Chemical Abstract Service Number	
CE50: Effective concentration (required to induce a 50% effect)	
CE NUMBER: Identifier in ESIS (European archive of existing substances)	
CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level	
EmS: Emergency Schedule	
GHS: Globally Harmonized System of classification and labeling of chemicals	
IATA DGR: International Air Transport Association Dangerous Goods Regulation IC50: Immobilization Concentration 50%	
IMDG: International Maritime Code for dangerous goods	
IMO: International Maritime Organization	
INDEX NUMBER: Identifier in Annex VI of CLP	
LC50: Lethal Concentration 50% LD50: Lethal dose 50%	
OEL: Occupational Exposure Level	
PBT: Persistent bioaccumulative and toxic as REACH Regulation	
PEC: Predicted environmental Concentration PEL: Predicted exposure level	
PNEC: Predicted no effect concentration	
REACH: EC Regulation 1907/2006	
RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value	
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.	
TWA STEL: Short-term exposure limit	
TWA: Time-weighted average exposure limit	
VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation	
WGK: Water hazard classes (German).	
SENERAL BIBLIOGRAPHY	
. Regulation (EC) 1907/2006 (REACH) of the European Parliament . Regulation (EC) 1272/2008 (CLP) of the European Parliament	
B. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament	
. Regulation (EU) 2015/830 of the European Parliament	
. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament . Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament	
. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament	
. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament	
. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament	
0. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 1. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament	
2. Regulation (EU) 2016/1179 (IX Atp. CLP)	
3. Regulation (EU) 2017/776 (X Atp. CLP)	
4. Regulation (EU) 2018/669 (XI Atp. CLP) 5. Regulation (EU) 2018/1480 (XIII Atp. CLP)	
6. Regulation (EU) 2019/521 (XII Atp. CLP)	
The Merck Index 10th Edition	
Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet)	

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

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The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15.