

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Reference number: A 111
Issue date: 06/07/2021 Revision date: 04/03/2021 Supersedes version of: 20/08/2018 Version: 11.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : A 111
Product code : A 111
Product group : Trade product
Reference number : A 111

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Use of the substance/mixture : . Use of the product
Lubricant for vacuum pump

Uses advised against

Restrictions on use : No data available.

1.3. Details of the supplier of the safety data sheet

Pfeiffer Vacuum SAS
98, avenue de Brogny - BP 2069
74009 Annecy Cedex - FRANCE
T +(33) 04 50 65 77 77
support-service@adixen.fr

1.4. Emergency telephone number

Emergency number : The emergency telephone number for France is the ORFILA (INRS) number: + 33 (0) 1 45 42 59 59. This number gives details of all the poison control centres in France. These poison control and toxicovigilance centres provide free medical care 24/7 (excluding the cost of the call). For the emergency telephone number for your own country, please contact the relevant local authorities and visit the ECHA (European Chemicals Agency) website: http://echa.europa.eu/help/nationalhelp_contact_en.asp

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment — Chronic Hazard, Category 4 H413

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause long lasting harmful effects to aquatic life.

2.2. Label elements

Labelling according to the Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -
Contains : Benzene, monoalkyl(C10-13) derivs, fractionation bottoms, heavy ends
EC : 302-196-6
Hazard statements (CLP) : H413 - May cause long lasting harmful effects to aquatic life.

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Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzene, monoalkyl(C10-13) derivs, fractionation bottoms, heavy ends	(CAS-No.) 94094-93-6 (EC-No.) 302-196-6	100	Aquatic Chronic 4, H413

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Get the victim to fresh air. If symptoms persist, seek medical attention.

First-aid measures after skin contact : Wash skin with soap and water.
In case of skin irritation or allergic reactions, consult a doctor.

First-aid measures after eye contact : Rinse thoroughly with water, including the eyelids.
Refer the subject to an ophthalmologist, especially if redness or visual discomfort appears.

First-aid measures after ingestion : Consult a doctor and show the label.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : In case of fire, use:
- foam- powder- carbon dioxide (CO2).

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Unsuitable extinguishing media : In case of fire, do not use:
- water
Water is not generally recommended as it can be ineffective, but it can be used to good effect to cool fire-exposed containers and disperse vapours.

5.2. Special hazards arising from the substance or mixture

Fire hazard : A fire will often produce thick black smoke. Exposure to decomposition products may pose a health hazard.
Do not breathe in the smoke.
In the event of a fire, these gases may form:
- carbon monoxide (CO)- carbon dioxide (CO₂).

5.3. Advice for firefighters

Protection when fire : Due to the toxicity of the gases emitted during the thermal decomposition of the products, the firemen will be equipped with self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Refer to protective measures listed in sections 7 and 8.

6.1.1. For non-emergency personnel

Protective equipment : Get uninvolved personnel away from the affected area. Alert security personnel. Except for minor incidents, the feasibility of any action should always be assessed and, if possible, referred to a competent, trained emergency manager.

6.1.2. For emergency responders

Protective equipment : The workers will be provided with appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Contain and collect spills with non-combustible absorbent materials like sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent spillage into sewers or waterways.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean preferably with a detergent, avoid the use of solvents.

6.4. Reference to other sections

Refer to section 13 for additional information on waste handling.

Refer to section 2 for hazard identification.

Refer to section 8 for personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processing : Deny access to unauthorised persons.

Precautions for safe handling : For personal protection, see section 8.
Observe the precautions indicated on the label as well as the labor protection regulations. Smoking, eating and drinking are prohibited in the premises where the mixture is used.

Hygiene measures : Wash hands after each use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed against humidity.

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- Storage area : The floor of the premises will be impermeable and will form a retention basin so that in the event of an accidental spill, the liquid cannot spread outside.
- Special rules on packaging : Keep container tightly closed in a well-ventilated area. Always keep it in the same packaging material as the original.
Recommended packaging types:
- Cans- Drums Suitable packaging materials:
- Coated steel- Polyethylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use clean and properly maintained personal protective equipment.
Store personal protective equipment in a clean area away from the work area.
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse.
Ensure adequate ventilation, especially in enclosed areas.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Avoid contact with eyes.
Use eye protection designed to protect against liquid splashes.
Before any manipulation, it is necessary to wear safety goggles in accordance with the NF EN166 standard.

8.2.2.2. Skin protection

Skin and body protection:

Staff shall wear regularly laundered work clothes. After contact with the product, all soiled body parts should be washed.

Hand protection:

Wear appropriate protective gloves for prolonged or repeated skin contact.
Recommended type of gloves:
- Teflon® (Polytetrafluoroethylene (PTFE))- Viton® (Copolymer of hexafluoropropylene and vinylidene fluoride)- Butyl rubber (Isobutylene-isoprene copolymer) Recommended characteristics:
- Waterproof gloves according to EN ISO 374-2

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8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Appearance	: Free flowing liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 170 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 100 mm ² /s (40°C)
Solubility	: Not miscible with water. Insoluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Keep container tightly closed against humidity.
Density	: Not available
Relative density	: 0,87
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable

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Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

This mixture is stable under the handling and storage conditions recommended in Section 7.

10.3. Possibility of hazardous reactions

No dangerous reaction under the recommended conditions of use.

10.4. Conditions to avoid

Heat, sparks, ignition points, flames, etc.

10.5. Incompatible materials

Strong oxidants.

Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition may release or form:

- carbon monoxide (CO)- carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ACUTE TOXICITY (ORAL) : Not classified

ACUTE TOXICITY (DERMAL) : Not classified

ACUTE TOXICITY (INHALATION) : Not classified

ADDITIONAL INFORMATION : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

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LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	> 3160 mg/kg

Benzene, monoalkyl(C10-13) derivs, fractionation bottoms, heavy ends (94094-93-6)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 5000 mg/kg
ATE CLP (oral)	> 2000 mg/kg

SKIN CORROSION/IRRITATION : Not classified

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Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

SERIOUS EYE DAMAGE/IRRITATION : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

RESPIRATORY OR SKIN SENSITISATION : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

GERM CELL MUTAGENICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

CARCINOGENICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

REPRODUCTIVE TOXICITY : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

STOT-SINGLE EXPOSURE : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

STOT-REPEATED EXPOSURE : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

ASPIRATION HAZARD : Not classified

Additional information : To the best of our knowledge (and taking into account its composition) this product is not classified in this hazard category.

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Viscosity, kinematic	100 mm ² /s (40°C)

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE :

Dermal contact : No data available

Eyes contact : No data available

Inhalation : No data available

Ingestion : No data available

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2 Other information

Potential adverse human health effects and symptoms : No data available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : May cause long lasting harmful effects to aquatic life.

Additional information : Any discharge of the product into sewers or waterways should be avoided.

Benzene, monoalkyl(C10-13) derivs, fractionation bottoms, heavy ends (94094-93-6)

EC50 - Crustacea [1]	0,0075 mg/l (Daphnia)
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12.2. Persistence and degradability

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Biodegradation	OECD 301F – 58.8% (28 days) – Not readily biodegradable
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Benzene, monoalkyl(C10-13) derivs, fractionation bottoms, heavy ends (94094-93-6)

Biodegradation	No data on degradability is available, the substance is considered not to be rapidly degradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No data / information available.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Appropriate waste management of the mixture and/or its container shall be determined in accordance with the provisions of Directive 2008/98/EC. French regulations prohibit the discharge of oil or used oil into the environment.
Product/Packaging disposal recommendations	: Empty the container completely. Keep label on container. Deliver to an approved disposal facility.
Additional information	: Waste is managed without endangering human health and without harming the environment, and in particular without creating a risk to water, air, soil, fauna or flora. Recycle or dispose of in accordance with applicable laws, preferably through a licensed collector or company. Do not contaminate soil or water with waste, do not dispose of in the environment.
European List of Waste (LoW) code	: 13 02 06* synthetic engine, gear and lubricating oils.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: NOT APPLICABLE
Proper Shipping Name (IMDG)	: NOT APPLICABLE
Proper Shipping Name (IATA)	: NOT APPLICABLE
Proper Shipping Name (ADN)	: NOT APPLICABLE
Proper Shipping Name (RID)	: NOT APPLICABLE

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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ADN

Transport hazard class(es) (ADN)	: Not applicable
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RID

Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

IBC code : No available data for bulk transport in accordance with annex II of the MARPOL 73/78 Convention and the IBC Code; if necessary, consult the supplier.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
3(c)	A 111	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances
- Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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- Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Following major changes, the SAFETY DATA SHEET has been completely revised.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
TLM	Median Tolerance Limit

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
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H413	May cause long lasting harmful effects to aquatic life.
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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 4	H413	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.