

SAFETY DATA SHEET

Dated 19/4/2024

Version 0 19/4/2024

INRAL

Trade name: INRAL PAINT REMOVER

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

1.1 Product identifier

Mixture identification:

Trade name: INRAL PAINT REMOVER

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

Recommended use:

Spray Paint

1.3 Details of the supplier of the safety data sheet

Company:

UAB TEGRA STATE
Savanorių ave. 178A,
LT-03154 Vilnius, Lithuania
Tel. +37052661167
www.tegrastate.lt
E-mail: info@tegra.lt

1.4 Emergency telephone number

112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

 Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2 Label elements

Hazard pictograms:



Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H318 Causes serious eye damage.

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Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P280 Wear protective gloves/clothing, eye/face protection and hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/...

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents and container in accordance with applicable regulations.

Special Provisions:

None

Contains:

1,3-dioxolane

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3 Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances

N.A.


3.2 Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

$\geq 40\%$ - $< 50\%$ dimethyl ether

REACH No.: 01-2119472128-37, Index number: 603-019-00-8, CAS: 115-10-6, EC: 204-065-8

 2.2/1A Flam. Gas 1A H220

 2.5 Press. Gas H280

DECLK (CLP)*

$\geq 30\%$ - $< 40\%$ 1,3-dioxolane

REACH No.: 01-2119490744-29, Index number: 605-017-00-2, CAS: 646-06-0, EC: 211-463-5

 2.6/2 Flam. Liq. 2 H225

 3.3/1 Eye Dam. 1 H318

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>= 15% - < 20% dimethoxymethane

REACH No.: 01-2119664781-31, CAS: 109-87-5, EC: 203-714-2

 2.6/2 Flam. Liq. 2 H225

*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)-P210-P403 shall apply.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

CO² or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

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5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3 Advice for firefighters

The heat causes an increase in pressure inside the container with danger of bursting. In case of fire the aerosols bursting can be projected to distance with violence, with risk of propagation of the fire.
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand.

6.3 Methods and material for containment and cleaning up

Wash with plenty of water.

6.4 Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.

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7.2 Conditions for safe storage, including any incompatibilities

Vapours are more weighty than air. Vapours may form explosive mixture with air.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category:	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
P3a	150	500

7.3 Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

dimethyl ether - CAS: 115-10-6

EU - TWA(8h): 1920 mg/m³, 1000 ppm

MAK - TWA(8h): 1910 mg/m³, 1000 ppm - Notes: SWISS

TLV TWA - 1000 ppm - 1920 mg/m³

1,3-dioxolane - CAS: 646-06-0

ACGIH - TWA(8h): 20 ppm - Notes: Hematologic eff

MAK - TWA(8h): 20 ppm - STEL: 62 mg/m³ - Notes: SWISS

dimethoxymethane - CAS: 109-87-5

MAK - TWA(8h): 3100 mg/m³, 1000 ppm - STEL: 6200 mg/m³, 2000 ppm - Notes: SWISS

ACGIH - TWA(8h): 1000 ppm - Notes: Eye irr, CNS impair

DNEL Exposure Limit Values

dimethyl ether - CAS: 115-10-6

Worker Professional: 1894 mg/m³ - Consumer: 471 - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects

dimethoxymethane - CAS: 109-87-5

Worker Industry: 17.9 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 126.6 mg/m³ - Consumer: 31.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 18.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

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PNEC Exposure Limit Values

dimethyl ether - CAS: 115-10-6

Target: Fresh Water - Value: 0.155 mg/l
Target: Marine water - Value: 0.016 mg/l
Target: Soil (agricultural) - Value: 0.045 mg/kg
Target: Freshwater sediments - Value: 0.681 mg/kg
Target: Marine water sediments - Value: 0.069 mg/kg

dimethoxymethane - CAS: 109-87-5

Target: Fresh Water - Value: 14.577 mg/l
Target: Marine water - Value: 1.4577 mg/l
Target: Freshwater sediments - Value: 13.135 mg/kg
Target: Marine water - Value: 1.3135 mg/kg
Target: Soil (agricultural) - Value: 4.6538 mg/kg

8.2 Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Colourless	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flammable	--	--
Lower and upper explosion limit:	3.0 ÷ 18.6 % Vol.	--	--
Flash point:	<0 °C	--	--
Auto-ignition temperature:	>220 °C	--	--
Decomposition temperature:	N.A.	--	--

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pH:	Not Relevant	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	NO	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient noctanol/water (log value):	N.A.	--	--
Vapour pressure:	3.6 bar +/- 0.5 20 °C	--	--
Density and/or relative density:	0.80 +/- 0.05	--	--
Relative vapour density:	>1 (air=1)	--	--
Deformation Pressure:	15 bar	--	--
Explosion Pressure:	16 ÷ 20 bar	--	--
Volatile organic compounds - VOC	760 g/l	--	--
Volatile organic compounds - VOC	95%	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2 Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6 Hazardous decomposition products

None.

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SECTION 11: Toxicological information

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

Toxicological information of the product:

PAINT REMOVER

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

dimethyl ether - CAS: 115-10-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 309018 mg/m³ - Duration: 4h

dimethoxymethane - CAS: 109-87-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 6423 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

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SECTION 12: Ecological information

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.
WGK: 1

PAINT REMOVER

Not classified for environmental hazards
Based on available data, the classification criteria are not met

dimethyl ether - CAS: 115-10-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 4100 mg/l - Duration h: 96 - Notes: (NEN 6504)

Endpoint: EC50 - Species: Algae = 154.9 mg/l - Duration h: 96 - Notes: (ECOSAR v1.00)

dimethoxymethane - CAS: 109-87-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1200 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 10000 mg/l - Duration h: 72

12.2 Persistence and degradability

None

dimethyl ether - CAS: 115-10-6

Biodegradability: Non-readily biodegradable

12.3 Bioaccumulative potential

1,3-dioxolane - CAS: 646-06-0

Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 0.50

12.4 Mobility in soil

N.A.

12.5 Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7 Other adverse effects

None

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

WASTE CODE = 160504

SECTION 14: Transport information

14.1 UN number or ID number

ADR-UN number:	1950
IATA-Un number:	1950
IMDG-Un number:	1950

14.2 UN proper shipping name

ADR-Shipping Name:	AEROSOLS
IATA-Shipping Name:	AEROSOLS, flammable
IMDG-Shipping Name:	AEROSOLS

14.3 Transport hazard class(es)

ADR-Class:	2 - 5F
ADR-Label:	2.1
IATA-Class:	2.1
IATA-Label:	2.1
IMDG-Class:	2.1

14.4 Packing group

ADR-Packing Group:	-
IATA-Packing group:	-
IMDG-Packing group:	-

14.5 Environmental hazards

Marine pollutant:	No
IMDG-EMS:	F-D S-U

14.6 Special precautions for user

ADR-Transport category (Tunnel restriction code):	D
ADR-Limited Quantity (LQ):	1 L
IATA-Passenger Aircraft:	Forbidden
IATA-Cargo Aircraft:	203
IMDG-Shipping Name:	AEROSOLS

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14.7 Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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Substances for which a Chemical Safety Assessment has been carried out:

None

15.3 VOC

Volatile organic compounds - VOCs = 760 g/l

Volatile organic compounds - VOCs = 95 %

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Gas 1A	2.2/1A	Flammable gas, Category 1A
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222, H229	On basis of test data
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.

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The logo for INRAL, featuring the word "INRAL" in a bold, white, sans-serif font. To the right of the text is a stylized yellow and orange circular graphic element.

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GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.