
SAFETY DATA SHEET*according to Regulation (EC) No. 1907/2006***098490012 - ULTRAGAS 2205 (Spare-Cartridge for Turbojet) - 210 G**

Version 4.1	Revision Date 29.07.2014	Print Date 29.04.2015	DE / EN
	Date of last issue: 25.07.2014		
	Date of first issue: 11.06.2010		

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name	:	ULTRAGAS 2205 (Spare-Cartridge for Turbojet) - 210 G
Product code	:	098490012
SDS-Identcode	:	10033674

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

Use of the Substance/Mixture	:	Gas for further use and processing
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1.3 Details of the supplier of the safety data sheet

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany
Telephone	:	+49 7940 15 0
Telefax	:	+49 7940 15 10 00
Responsible/issuing person	:	E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin
+49 30 30686 790

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
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Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
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2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



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Signal word	:	Danger	
Hazard statements	:	H222 H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Precautionary statements	:	Prevention: P210 P211 P251 Storage: P410 + P412	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
butane	106-97-8	F+; R12	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 55 - < 60
	203-448-7			
propylene	115-07-1	F+; R12	Flam. Gas 1; H220	>= 25 - < 35
	204-062-1			
propane	74-98-6	F+; R12	Flam. Gas 1; H220	>= 10 - < 12,5
	200-827-9			

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acetone	67-64-1	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 3 - < 5
	200-662-2			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	: If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately. May cause frost-bite.
If inhaled	: If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	: Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash frost-bitten areas with plenty of water. Do not remove clothing. Cover wound with sterile dressing.
In case of eye contact	: Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Swallowing is not regarded as a possible method for exposure. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide (CO₂), Sand, Earth

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid skin contact with leaking liquid (danger of frostbite).

6.2 Environmental precautions

Prevent product from entering drains. Attempt to stop the escaping of gas.

6.3 Methods and materials for containment and cleaning up

No data available

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling : Avoid contact with skin and eyes. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Prevent the intrusion of water into the gas tank. Prevent backflow into the gas tank. Open the valves slowly to prevent pressure surges. For personal protection see section 8.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Vapours may form explosive mixtures with air.
- Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Secure the pressure vessels (gas cylinders) against falling over. Only use such equipment, which is suitable for this product and the proposed pressure and temperature.
- Advice on common storage : Incompatible with oxidizing agents.
- Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.
- German storage class : 2A, Compressed, liquefied or pressurised gas
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
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Components	CAS-No.	Control parameters	Basis	Update
butane	106-97-8	AGW: 2.400 mg/m ³ , 1.000 ppm DFG,	DE TRGS 900	2006-01-01
propane	74-98-6	AGW: 1.800 mg/m ³ , 1.000 ppm DFG,	DE TRGS 900	2006-01-01
acetone	67-64-1	AGW: 1.200 mg/m ³ , 500 ppm DFG, EU,	DE TRGS 900	2010-08-04
Components	CAS-No.	Control parameters	Basis	Update
acetone	67-64-1	TWA: 1.210 mg/m ³ , 500 ppm	2000/39/EC	2009-12-19

Other information on limit values: see chapter 16

Biological occupational exposure limits - TRGS903

Substance name	CAS-No.	Control parameters	Sampling time	Update
acetone	67-64-1	Acetone: 80 mg/l (Urine)	b	2004-08-01

Remarks:

- a No time limit
- b Immediately after exposition or after working hours
- c In case of long-term exposition: after more than one shift
- d Before the next shift

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection

- : In the case of vapour formation use a respirator with an approved filter.
- Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.

Hand protection

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Material : PVC

Material : Nitrile rubber

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Wear eye/face protection.

Skin and body protection : Flame retardant antistatic protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Prevent product from entering drains.
Attempt to stop the escaping of gas.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : compressed liquefied gas
Colour : colourless
Odour : slight
Odour Threshold : No data available
Flash point : No data available
Ignition temperature : ca. 365 °C

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Thermal decomposition	: No data available
Lower explosion limit	: ca. 2,0 %(V)
Upper explosion limit	: ca. 10,2 %(V)
Explosive properties	: No data available
Flammability	: solid / gaseous: Extremely flammable aerosol.
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: Not applicable
Boiling point/boiling range	: -44 °C
Vapour pressure	: 5,4 bar at 20 °C
Density	: ca. 0,0006 g/cm ³ at 20 °C
Bulk density	: No data available
Water solubility	: insoluble at 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Impact sensitivity	: No data available
Relative vapour density	: No data available
Surface tension	: No data available
Evaporation rate	: No data available
Minimum ignition energy	: No data available
Acid number	: No data available
Refraction index	: No data available
Miscibility in water	: No data available
Solvent separation test	: No data available

9.2 Other information

None known.

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SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.
Vapours may form explosive mixtures with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents, Oxygen

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide, Nitrogen oxides (NO_x), Sulphur oxides, Organic Substances, Smoke

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

acetone : LD50 Rat, female: 5.800 mg/kg

Acute inhalation toxicity:

butane : LC50 Mouse, males: 1.237 mg/l, 520400 ppm
Test atmosphere: gas
Exposure time: 2 h

acetone : LC50 Rat, female: 76 mg/l
Test atmosphere: vapour
Exposure time: 4 h

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Acute dermal toxicity:

acetone : LD50 Rabbit, male and female: > 7.426 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

acetone : Repeated exposure may cause skin dryness or cracking.

Species: Guinea pig

No skin irritation

Serious eye damage/eye irritation

acetone : Species: Rabbit
Irritation to eyes, reversing after 7 to 21 days.

Respiratory or skin sensitisation

Sensitisation:

acetone : Test Method: Maximisation Test (GPMT)
Species: Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro:

butane : Test species: Human lymphocytes
with and without metabolic activation
Result: negative
Method: OECD Test Guideline 473

propylene : Type: Ames test
Test species: Salmonella typhimurium
with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

acetone : Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Test species: Salmonella typhimurium
with and without metabolic activation
Result: negative

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Genotoxicity in vivo:

butane : Type: In vivo micronucleus test
Test species: Rat
Sex: male and female
Application Route: inhalation (gas)
Exposure duration: 13 w
Dose: 0 - 10000 ppm
Result: negative
Method: OECD Test Guideline 474

propylene : Type: Micronucleus test
Test species: Rat
Sex: male
Application Route: inhalation (gas)
Result: negative
Method: OECD Test Guideline 474

acetone : Type: In vivo micronucleus test
Test species: Mouse
Sex: male and female
Application Route: Oral
Result: negative

Carcinogenicity

Remarks

acetone : Carcinogenicity:
Animal testing did not show any carcinogenic effects.

Mutagenicity:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity

acetone : Note: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Teratogenicity

No data available

STOT - single exposure

acetone : May cause drowsiness or dizziness.

STOT - repeated exposure

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butane

: NOAEL: Rat, male and female: 21,394 mg/l, 9000 ppm

Application Route: Inhalation

Exposure time: 28 d

Dose: 0 - 9000 ppm

Aspiration hazardAspiration toxicity

No data available

Neurological effects

No data available

Toxicology AssessmentToxicology, Metabolism, Distribution

No data available

Acute effects

No data available

Further information

: Contact with liquid or refrigerated gas can cause cold burns and frostbite.

Specific hazards: Suffocation.

May cause frostbite.

SECTION 12: Ecological information**12.1 Toxicity**Toxicity to fish

acetone

: LC50 (Pimephales promelas (fathead minnow)): 6.210 - 8.120 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

acetone

: EC50 (Daphnia pulex (Water flea)): 8.800 mg/l

Exposure time: 48 h

Toxicity to algae

acetone

: NOEC (Microcystis aeruginosa): 530 mg/l

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Exposure time: 8 d

Toxicity to bacteria

acetone : EC50 : 61,15 mg/l
Exposure time: 30 min
Test Method: Respiration inhibition of activated sludge
Method: ISO 8192

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

acetone : NOEC: 1.106 - 2.212 mg/l
Exposure time: 28 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Biodegradability

butane : Concentration: 61,2 mg/l
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 26,4 d

propylene : Result: Readily biodegradable.

acetone : Result: Readily biodegradable.
Biodegradation: 90,9 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
160505, gases in pressure containers other than those mentioned in 16 05 04

Waste key (used product):
160505, gases in pressure containers other than those mentioned in 16 05 04

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty pressure vessels should be returned to the supplier. Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADN : 1950
ADR : 1950
RID : 1950
IMDG : 1950
IATA : 1950

14.2 Proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE

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14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN
Classification Code : 5F
Labels : 2.1

ADR

Classification Code : 5F
Labels : 2.1
Limited quantity : 1,00 L
Tunnel restriction code : (D)

RID
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1
Limited quantity : 1,00 L

IMDG
Labels : 2.1
EmS Number : F-D, S-U

IATA
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Labels : 2.1

14.5 Environmental hazards

ADN
ADN
Environmentally hazardous : no

ADR
Environmentally hazardous : no

RID
Environmentally hazardous : no

IMDG
Marine pollutant : no

IATA
Environmentally hazardous : no

14.6 Special precautions for user

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see chapter: 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the con- trol of major-accident hazards involving dangerous substances	: Update:	Quantity 1	Quantity 2
	Extremely flammable	10 t	50 t
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Update:		
	FLAMMABLE AEROSOLS	150 t	500 t
	Update: Petroleum products: (a) gaso- lines and naphthas, (b) ker- osenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2.500 t	25.000 t
	Update: Liquefied extremely flamma- ble gases (including LPG) and natural gas	50 t	200 t

National legislation

Water contaminating class (Germany)	: nwg (not water endangering)
Other regulations	: Observe national used protectional regulations.
Further information	: Reserved for industrial and professional use.

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15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Other information

DFG	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
EU	European Union (The EU has established a limit value: deviations in value and peak limit are possible)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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