

SAFETY DATA SHEET AB 172435

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 PRODUCT IDENTIFIER

Product name Ultramark 1621, Mass Spec Std

Product code AB 172435

1.2 IDENTIFIED USES

Chemicals used in research and development

1.3 DETAILS OF THE COMPANY OF THE SAFETY DATA SHEET

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1.4 EMERGENCY TELEPHONE NUMBER

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2. HAZARDS IDFENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Product definition Substance

2.2 CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory

tract irritation] - Category 3

Hazard pictograms



Signal word Warning

Precautionary statements

Prevention Wear protective gloves. Wear eye or face protection. Use only outdoors or in a

well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after

handling.



Response IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or physician if you feel

unwell.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated

clothing. Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

Storage Store locked up.

Disposal Dispose of contents and container in accordance with all local, regional, national

and international regulations.

2.3 CLASSIFICATION ACCORDING TO DIRECTIVE 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification Xi; R36/37/38

Physical/chemical hazards Not applicable.

Human health hazards Irritating to eyes, respiratory system and skin.

Environmental hazards Not applicable.

2.4 CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC [DSD]

Hazard symbol or symbols



Indication of danger Irritan

Risk phrases R36/37/38- Irritating to eyes, respiratory system and skin.

Safety phrases S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Supplemental label elements Not applicable.

2.5 OTHER HAZARDS

Other hazards which do not result in classification

Not available.

See section 16 for the full text of the R-phrases declared above

See Section 11 for more detailed information on health effects and symptoms.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture

Mono-constituent substance

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Ultramark 1621, Mass Spec Std	CAS: 105809-15-2	100	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[A]
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements declared above.	

Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 10 minutes. Get medical attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing

. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to

be kept under medical surveillance for 48 hours.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air

and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training. If

it is suspected that fumes are still present, the rescuer should wear an

appropriate mask or self-contained breathing apparatus. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.



4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS; BOTH ACUTE AND DELAYED

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation May cause respiratory irritation. Exposure to decomposition products may cause

a health hazard. Serious effects may be delayed following exposure.

Skin contact Causes skin irritation.

Ingestion Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact Adverse symptoms may include the following:

irritation redness

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be

delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

Specific treatments No specific treatment.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing

media

None known.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazards from the substance or In a fire or if heated, a pressure increase will occur and the container may burst.

mixture

Hazardous combustion

products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

halogenated compounds

5.3 ADVICE FOR FIREFIGHTERS

Special precautions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.



Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialised clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and

mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via

a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach release from

upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled

product.

6.4 REFERENCE TO OTHER SECTIONS

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 PRECAUTIONS FOR SAFE HANDLING



Protective measures Put on appropriate personal protective equipment (see Section 8). Do not ingest.

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 SPECIFIC END USE(S)

Recommendations
Industrial sector specific

solutions

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 CONTROL PARAMETERS

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levelsNo DELs available.

Predicted effect concentrations

No PECs available.

8.2 EXPOSURE CONTROLS



Appropriate engineering

controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products,

before eating, smoking and using the lavatory and at the end of the working

period. Appropriate techniques should be used to remove potentially

contaminated clothing. Wash contaminated clothing before reusing. Ensure that

eyewash stations and safety showers are close to the workstation location.

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists

, gases or dusts.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary.

Body protection Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of

the product and the safe working limits of the selected respirator.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the

process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid.

ColorNot available.OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point and boilingNot available.

range

Flash point

Evaporation rate

Flammability (solid, gas)

Burning time

Burning rate

Upper/lower flammability or

Not available.

Not applicable.

Not applicable.

Not available.

explosive limits



Vapor pressure
Not available.
Vapor density
Not available.
Relative density
Not available.
Solubility(ies)
Not available.
Partition coefficient: n-octanol/
Not available.

water

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Explosive properties Not available.

Oxidizing properties Not available.

9.2 OTHER INFORMATION

No additional information.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

No specific test data related to reactivity available for this product or its ingredients.

10.2 CHEMICAL STABILITY

Stable under recommended storage and handling conditions (see section 7).

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 CONDITIONS TO AVOID

heat moisture

10.5 INCOMPATIBLE MATERIALS

oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

Conclusion/Summary Not available.

Irritation/Corrosion

Conclusion/Summary Not available.



Sensitizer

Conclusion/Summary Not available.

Mutagenicity

Conclusion/Summary Not available.

Carcinogenicity

Conclusion/Summary Not available.

Reproductive toxicity

Conclusion/Summary Not available.

Teratogenicity

Conclusion/Summary Not available.

Information on the likely routes Not available.

of exposure

Potential acute health effects

Inhalation May cause respiratory irritation. Exposure to decomposition products may cause

a health hazard. Serious effects may be delayed following exposure.

Skin contact Irritating to mouth, throat and stomach.

Ingestion Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion No specific data.

Skin contact Adverse symptoms may include the following:

irritation redness

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.



Potential chronic health effects

Not available.

Conclusion/Summary Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Other information Not available.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Conclusion/Summary Not available.

12.2 PERSISTENCE AND DEGRADABILITY

Conclusion/Summary Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Not available.

12.4 MOBILITY IN SOIL

Soil/water partition coefficient (Not available.

K_{oc})

Mobility Not available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT No.

vPvB Not available.

12.6 OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 WASTE TREATMENT METHODS

Product



Methods of disposalThe generation of waste should be avoided or minimized wherever possible.

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation

and any regional local authority requirements.

Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposalThe generation of waste should be avoided or minimized wherever possible.

Waste packaging should be recycled. Incineration or landfill should only be

considered when recycling is not feasible.

Special precautions This material and its container must be disposed of in a safe way. Care should

be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

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

Not available.



15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

Europe inventory Not determined.

Black List Chemicals Not listed **Priority List Chemicals** Not listed Integrated pollution Not listed

prevention and control list (

IPPC) - Air

Integrated pollution

prevention and control list (

IPPC) - Water

Not listed

Chemical Weapons Convention Not applicable. List Schedule i Chemicals

Chemical Weapons Convention Not applicable. List Schedule II Chemicals

Chemical Weapons Convention Not applicable. List Schedule III Chemicals

15.2 Chemical Safety Assessment

Not available.



16. OTHER INFORMATION

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Irrit. 2, H315	Expert judgment	
Eye Irrit. 2, H319	Expert judgment	
STOT SE 3, H335	Expert judgment	

Full text of abbreviated H H315 Causes skin irritation.

statements H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Full text of classifications [

CLP/GHS]

Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category

2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R

phrases

R36/37/38- Irritating to eyes, respiratory system and skin.

Full text of classifications [

DSD/DPD]

Xi - Irritant

Date of issue/ Date of

revision

23.09.2011.

Version 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.