

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE

PRODUCT IDENTITY: ORBITRAC 425

PRODUCT USES: Cleaning Solution

COMPANY IDENTITY: Allsop Europe Limited

COMPANY ADDRESS: IDA Industrial Park, Waterford,
X91 HR50, Ireland

COMPANY PHONE: +353 (0)51 355091

EMERGENCY PHONES: +353 (0)51 355091

SECTION 2. HAZARDS IDENTIFICATION

2.1 GHS HAZARDS CLASSIFICATION

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200

Acute toxicity (inhalation)	Category 4
Eye irritation	Category 2A
Skin irritation	Category 3

2.2 LABEL ELEMENTS

GHS HAZARD PICTOGRAMS



Signal Word: **WARNING!**

HAZARD STATEMENTS:

H315: CAUSES SKIN IRRITATION

H319: CAUSES SERIOUS EYE IRRITATION

H332: HARMFUL IF INHALED

2.2 PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash with soap & water thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air & keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present & easy to do - Continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313: If eye irritation persists, get medical advice/attention.
P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P500: Dispose of contents in accordance with local/regional/federal regulations.

2.3 HAZARDS NOT OTHERWISE CLASSIFIED: none
SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	Wt (%)
DI WATER	7732-18-5	>90
ISOPROPYL ALCOHOL	67-63-0	3-5
2-BUTOXY ETHANOL	111-76-2	3-5
PROPRIETARY WETTING AGENT	--	<1

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SECTION 4. FIRST AID MEASURES

4.1 GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

4.2 EYE CONTACT:

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician. If eye irritation persists, seek medical attention.

4.3 SKIN CONTACT:

In case of skin contact, wash off with plenty of water for at least 15 minutes. Remove contaminated clothing. If skin becomes irritated and irritation persists, seek medical attention.

4.4 INHALATION:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.5 SWALLOWING:

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

5.1 SPECIFIC EXTINGUISHING METHOD

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 EXTINGUISHING MEDIA

Use dry chemical, carbon dioxide, alcohol-resistant foam. Do not use high volume water jet.

5.3 SPECIAL HAZARDS ARISING FROM THE PRODUCT

Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Combustion products include carbon dioxide and carbon monoxide.

5.4 SPECIFIC PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES:

Spill or releases should be only responded to by trained personnel using pre-planned procedures. No action shall be taken involving personal risk without suitable training. Keep unnecessary and unprotected personnel from entering spill area. Do not touch or walk through material. Avoid breathing vapor or mist. Provide adequate ventilation. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. ELIMINATE all ignition sources. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.3 ENVIRONMENTAL PRECAUTIONS:

Stop spill at source if able to. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance. If the product enters the sewer system, inform local authorities.

6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:

Absorb spilled liquid and collect with non-combustible absorbent material. Place all spill residue in suitable container and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with eyes and skin. Avoid breathing vapor. Avoid formation of dust and aerosols. Wash thoroughly after handling. Always keep container closed. Use only with adequate ventilation. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep container tightly closed & upright when not in use to prevent leakage.
Store in a dry and well-ventilated place.

7.3 EMPTY CONTAINER WARNING:

Empty containers may contain residue and can be hazardous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.**

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE LIMITS:

MATERIAL	ACGIH TLV	NIOSH REL	OSHA PEL
ISOPROPYL ALCOHOL 67-63-0	200ppm	400ppm	400ppm
2-BUTOXY ETHANOL 111-76-2	20ppm	5ppm	50ppm

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

8.2 APPROPRIATE ENGINEERING CONTROLS:

RESPIRATORY EXPOSURE CONTROLS

Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations, after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown. Maintain airborne contaminant concentrations below exposure limits. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For particulates, a particulate respirator (NIOSH Type N95 or better filters) may be worn. If oil particles (such as: lubricants, cutting fluids, glycerin, and so on) are present, use a NIOSH Type R or P filter. For a higher level of protection, use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxiliary positive pressure Self-Contained Breathing Apparatus.

VENTILATION

LOCAL EXHAUST: As Needed MECHANICAL (GENERAL): As Needed
SPECIAL: None OTHER: None
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE 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 or dusts. If contact is possible, chemical splash goggles should be worn, when a higher degree of protection is necessary, use splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

HAND PROTECTION:

Use gloves chemically resistant to this material. Discuss with the producers of the protective gloves.

BODY PROTECTION:

Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.

WORK & HYGIENIC PRACTICES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using toilet facilities and at the end of the working period. Provide readily accessible eye wash stations & safety showers. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, colorless
ODOR:	Alcohol like
ODOR THRESHOLD:	No data available
pH (Neutrality):	No data available
MELTING POINT/FREEZING POINT:	-130°F to -84.3°F
BOILING RANGE (IBP,50%, Dry Point):	181°F to 212°F
EVAPORATION RATE (n-Butyl Acetate=1):	No data available
FLAMMABILITY CLASSIFICATION:	No data available
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	No data available
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	No data available
VAPOR PRESSURE (mm of Hg) @20 C	
VAPOR DENSITY (air=1):	No data available
GRAVITY @ 68/68 F / 20/20 C:	
DENSITY:	No data available
SPECIFIC GRAVITY (Water=1):	.075-1
POUNDS/GALLON:	No data available
WATER SOLUBILITY:	No data available
PARTITION COEFFICIENT (n-Octane/Water):	No data available
AUTO IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	Not Available
TOTAL VOC'S (TVOC)*:	0.0 Vol% / 0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% / 0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% / 0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 25 C (ASTM D445):	No data available

* Using CARB (California Air Resources Board Rules).

SECTION 10. STABILITY & REACTIVITY

10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

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

10.3 INCOMPATIBLE MATERIALS:

Oxidizing materials, reducing materials, metals, peroxides, strong acids, zinc and halogenated compounds.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire condition: Carbon monoxide, carbon dioxide, aldehydes, ketones and organic acids.

10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY: Harmful if swallowed

Skin Corrosion/Irritation: Irritation to skin, defatting, dermatitis. Wash thoroughly after handling.
Eye Damage/Irritation: Irritation to eyes, redness, tearing, blurred vision.
Ingestion: Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.
Inhalation: Target organs: central nervous system. Anesthetic. Acute overexposure can cause serious nervous system depression. Vapor harmful. May cause narcotic effects.

11.2 SUBCHRONIC HEALTH EFFECTS

Pre-existing disorders of any target organs mentioned in this Document can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid use of this product.

11.3 CHRONIC HAZARDS:

11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

IARC lists methyl isobutyl ketone as Group 2B, "Possibly carcinogenic to humans." The classification is based on tests with laboratory animals.

Methyl isobutyl ketone is not listed on NTP, NIOSH, OSHA or ACGIH.

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

11.3.2 TARGET ORGANS: May cause damage to target organs (central nervous system), based on animal data.

11.3.3 IRRITANCY: Irritating to contaminated tissue.

11.3.4 SENSITIZATION: No component is known as a sensitizer.

11.3.5 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.3.6 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.3.7 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.3.8 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

11.2 MAMMALIAN TOXICITY INFORMATION

MATERIAL	LD50 (mg/kg)	LD50 (mg/kg)	LC50 (ppm)
ISOPROPYL ALCOHOL 67-63-0	5840 mg/kg (Oral, Rat)	12800 mg/kg (Dermal, Rabbit)	>10000ppm (Vapor, rat, 6hr)
2-BUTOXY ETHANOL 111-76-2	745 mg/kg (Oral, Rat)	No data available	No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment.

ISOPROPYL ALCOHOL
(67-63-0) ACUTE LC50 1400-1950mg/l
Crangon, 48 hours
ACUTE LC50 4200mg/l
Rasbora heteromorpha, 96 hours

12.4 MOBILITY IN SOIL

No data available.

12.5 DEGRADABILITY

This product is readily biodegradable.

12.6 ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE USED CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal. **ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.**

SECTION 14. TRANSPORT INFORMATION

	ID number	Shipping Name	Hazard Class	Packing Group
DOT/TDG SHIP NAME:	N/A			
IATA / ICAO:	N/A			
IMO / IMDG:	N/A			

EMERGENCY RESPONSE GUIDEBOOK NUMBER: N/A

SECTION 15. REGULATORY INFORMATION

15.1 EPA REGULATION:

All components of this product are on the TSCA Inventory

SARA SECTION 311/312 HAZARDS: Acute Health.

SARA SECTION 302: Not listed

SARA TITLE III SECTION 313: Not listed

SARA SECTION 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

EPCRA - Emergency Planning and Community Right-to-Know Act

OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not Listed

15.2 US State Regulations

Massachusetts Right to Know: No Data Available

Pennsylvania Right to Know: No Data Available

New Jersey Right to Know: No Data Available

California Prop 65: No Data Available

15.3 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

Flammable Liquid

Material causing other toxic effects

This product was classified using the hazard criteria of the Controlled Products Regulations (CPR). This Document contains all information required by the CPR.

15.3 INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

SECTION 16. OTHER INFORMATION

16.1 HAZARD RATINGS:

NFPA RATING:

HEALTH: 2, FLAMMABILITY: 0, REACTIVITY: 0, SPECIFIC HAZARD: N/A
(Personal Protection Rating to be supplied by user based on use conditions.)

HMIS RATING:

HEALTH: 2, FLAMMABILITY: 0, PHYSICAL: 0, PERSONAL PROTECTION: C
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

16.2 EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS DATE: 05/01/2017

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein,

COMPANY IDENTITY: Allsop Europe Limited
PRODUCT IDENTITY: ORBITRAC 425

SDS DATE: 05/01/2017
ORIGINAL: 05/01/2017

except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.