Product	LOW ODOUR WHITE SPIRIT
Revision date	20 April 2017
Revision	1

Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name	**LOW ODOUR WHITE SPIRIT**
Synonyms, Trade names	No information available.

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

Identified uses	Used as a paint thinner for oil-based paints also a general purpose cleaner and degreaser.
Uses advised against	Do not use for cleaning skin as this may lead to skin disorders.

1.3 Details of the supplier of the safety data sheet

Supplier	Castle Paints Ltd Cloncollig Industrial Estate Tullamore Offaly R35 X993 Ireland Tel: 353 (0)579351583
Contact person	info@castlepaints.ie

1.4 Emergency telephone number

Emergency telephone	Emergency medical information: 8am - 10pm (Seven Days) contact National Poison Center,Beaumont Hospital. Telephone: +353 (0) 18092566

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards	Flam. Liq 3- H226
Human health	STOT SE 3 - H336, Asp. Tox - H304
Environment	Not classified

2.2 Label elements

Contains

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
CAS No.:
EC No.: 919-857-5

Label in accordance with (EC) no. 1272/2008

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention
P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.
Response
P378 Use foam, dry powder, carbon dioxide (CO2) or water spray for extinction.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

EUH statements EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: EC No.: 919-857-5 REACH Reg No.: 01-2119463258-33-0000	Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	60-100%

The full text for all hazard statements are displayed in section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

General information Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

Inhalation If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention. Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions. Seek medical advice (show the label where possible).

Ingestion Immediately rinse mouth and drink plenty of water. If person becomes uncomfortable or if ingested in large amounts seek medical advice and bring these instructions. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head low and/or keep airway clear. Do not induce vomiting.

Skin contact If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.

Eye contact Do not rub eye. Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Can cause central nervous system (CNS) depression. Vapors may cause drowsiness and dizziness. May cause nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, or unconsciousness.

Ingestion May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion or vomiting of even small quantities may cause cough and possibly difficulty in breathing. Chemical pneumonia may occur in the course of a day.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact May cause irritation of eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Treat symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Foam, dry powder, carbon dioxide (CO2), water spray. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	May produce hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons.
Unusual fire & explosion hazards	Flammable liquid and vapor. In a fire, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Solvent vapours may form explosive mixtures with air.
Specific hazards	Vapours may be ignited by a spark, a hot surface or an ember.

5.3 Advice for firefighters

Special fire fighting procedures	Keep up-wind to avoid fumes. Avoid breathing fire vapours. Ventilate closed spaces before entering them. If possible, fight fire from protected position. Containers close to fire should be removed immediately or cooled with water if safe to do so.
Protective equipment for firefighters	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.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. If necessary evacuate surrounding areas. Read and follow manufacturer's recommendations.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not discharge into drains, water courses or onto the ground. Prevent material from entering sewers, waterways, or low areas.

6.3 Methods and material for containment and cleaning up

Spill clean up methods	Ventilate and evacuate the area. Eliminate all sources of ignition. Wear necessary protective equipment. Stop leak if possible without risk. Use non sparking tools or equipment for clean up. Absorb spillage with non-combustible, absorbent material - sand. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Flush with plenty of water to clean spillage area.

6.4 Reference to other sections

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling

Use proper personal protection when handling (refer to Section 8). Keep away from heat, sparks and open flame. Provide good ventilation. Avoid inhalation of vapours and contact with skin and eyes. Avoid prolonged or repeated contact.
Do not wear contact lenses. Do not mix with other chemicals. Do not eat, drink or smoke when using the product. Ground equipment and use explosion-proof electrical equipment. Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from heat, sparks and open flame. Avoid contact with oxidising agents. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Suitable containers: Carbon steel, stainless steel. Unsuitable materials: Natural rubber, butyl rubber, polystyrene.

Storage class

Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s)

The identified uses are in section 1 of this Safety Data Sheet.

Usage description

Use only according to directions.

Section 8: Exposure controls/Personal protection

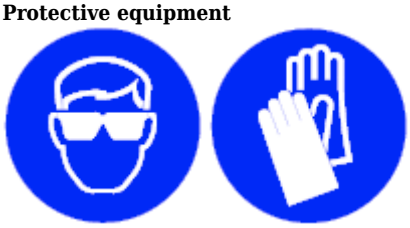
8.1 Control parameters

Ingredient comments

No exposure limits noted for ingredient(s). Ireland, Occupational Exposure Limits 2016.
DNEL: Workers long-term systemic effects skin contact - 300 mg/kg bw/day.
DNEL: Workers long-term systemic effects inhalation - 1500 mg/m3.
DNEL: Consumers long-term systemic effects inhalation - 900 mg/m3.
DNEL: Consumers long-term systemic effects ingestion - 300 mg/kg bw/day.

8.2 Exposure Controls

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction. Use explosion-proof ventilation equipment.

Respiratory equipment

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a backup to engineering controls. Type A/organic vapour protective components recommended. ABEK (EN 14387).
If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Gloves must be inspected prior to use.
Suggested material: Nitrile rubber. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Other protection

Wear appropriate clothing to prevent any possibility of skin contact.
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.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.
Process conditions	Use only according to directions. Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Mild, hydrocarbon odor.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	No information available.
pH-Value, Diluted solution	No information available.
Melting point	No information available.
Initial boiling point and boiling range	130.00 - 213.00 °C
Flash point	< 36.00 °C
Evaporation rate	No information available.
Flammability state	No information available.
Flammability limit - lower(%)	0.60
Flammability limit - upper(%)	7.00
Vapour pressure	3.00 hPa 20.00 °C
Vapour density (air=1)	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility	Negligible.
Decomposition temperature	No information available.
Partition coefficient; n-Octanol/Water	No information available.
Auto ignition temperature (°C)	> 200 °C.
Viscosity	0.8 - 2.1 mm2/s (20 °C).
Explosive properties	Not classified as explosive.
Oxidising properties	No information available.

9.2 Other information

Molecular weight	146.00g/mol
Volatile organic compound	No information available.
Other information	Density: 0.740 - 0.850 g/cm3 (15 °C).

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	The product may form explosive vapours/air mixtures even at normal room temperature.

10.2 Chemical stability

Stability	Stable product under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	Vapours may form explosive mixture with air.
Hazardous polymerisation	Will not polymerise.
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Heat, sparks, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid	Avoid strong oxidising agents, bases, strong acids. Do not mix with other chemicals unless listed on directions.

10.6 Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information	Experience with human exposure: Contains organic solvents. Chronic exposure damages the brain and the central nervous system.
Acute toxicity (Oral LD50)	>5000.00mg/kg Rat
Acute toxicity (Dermal LD50)	>5000.00mg/kg Rabbit
Acute toxicity (Inhalation LD50)	>5.00mg/l (vapours) Rat 4 Hours
Serious eye damage/irritation	May cause eye irritation.
Skin corrosion/irritation	No information available.
Respiratory sensitisation	No information available.
Skin sensitisation	No information available.
Germ cell mutagenicity	Not applicable.
Carcinogenicity	The product is not classified as a carcinogen hazard
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	No information available.
Inhalation	Can cause central nervous system (CNS) depression. Vapors may cause drowsiness and dizziness. May cause nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, or unconsciousness.
Ingestion	May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion or vomiting of even small quantities may cause cough and possibly difficulty in breathing. Chemical pneumonia may occur in the course of a day.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause irritation of eyes.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Routes of entry No information available.
Target organs Eyes, skin, digestive system, respiratory system, central nervous system.

Aspiration hazards: May be fatal if swallowed and enters airways.
Reproductive toxicity: The product is not classified as a reprodutive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	>5000.00mg/kg Rat	>5000.00mg/kg Rabbit	>5.00mg/l (dust/mist) Rat 4 Hours

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish No information available.
Acute toxicity - Aquatic invertebrates No information available.
Acute toxicity - Aquatic plants No information available.
Acute toxicity - Microorganisms No information available.
Chronic toxicity - Fish No information available.
Chronic toxicity - Aquatic invertebrates No information available.
Chronic toxicity - Aquatic plants No information available.
Chronic toxicity - Microorganisms No information available.
Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxilogical information No ecological toxicity available on the overall finished product.

12.2 Persistence and degradability

Degradability The product is readily biodegradable.
Biological oxygen demand No information available.
Chemical oxygen demand No information available.

12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.
Bioacculmation factor No information available.
Partition coefficient; n-Octanol/Water No information available.

12.4 Mobility in soil

Mobility The product evaporates readily.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Other adverse effects Do not flush into surface water or sanitary sewer system.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	96 Hours >1000.00 Onchorhynchus mykiss (Rainbow Trout)	48 Hours 1000.00mg/l Daphnia magna	>1000.00mg/l Scenedesmus Subspicatus 100.00mg/l Scenedesmus Subspicatus

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number

UN no. (ADR)	UN3295
UN no. (IMDG)	UN3295
UN no. (IATA)	UN3295

14.2 UN proper shipping name

ADR proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)
IMDG proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)
IATA proper shipping name	HYDROCARBONS, LIQUID N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

14.3 Transport hazard class(es)

ADR class	3
IMDG class	3
IATA class	3

Transport labels

14.4 Packing group

ADR/RID/ADN packing group	III
IMDG packing group	III
IATA packing group	III

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	F-E, S-D
Emergency action code	A3
Hazard no. (ADR)	30
Tunnel restriction code	(D/E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

Approved code of practice 2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a first issue.
Revision date	20 April 2017
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.