

INKUNITE 385

Date of issue: 2022/02/15
Revision No.: 1.2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY.

1.1 Product Identifier

Product form : Liquid
Trade Name : INKUNITE 385
EC Index No. : Mixture
EC No. : Mixture
CAS No. : Mixture

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

1.2.1 Relevant identified uses:
Adhesive.

1.2.2 Uses advised against:
No additional information available.

1.3 Details of the supplier of the safety data sheet.

AECI Industrial Chemicals, a Div. of AECI Ltd.
Foundry and Timber
4 Wharhirst Road, Umbogintwini Industrial Complex,
Amanzimtoti. 4126

1.4 Emergency telephone number

0800 114445

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification Regulation (EC) No 1272/2008 (CLP):

Skin sensitisation, Cat 1, H317
Carcinogenicity, Cat 1B, H350

Adverse physicochemical, human health and environmental effects:

May cause allergic skin reaction, May cause cancer (inhalation)

2.2 Label Elements

Labelling (Regulation (EC) No 1272/2008 (CLP))

Hazard pictograms



Signal word:

DANGER

Contains:

FORMALDEHYDE, UREA FORMALDEHYDE RESIN

Hazard Statements

H317- May cause allergic skin reaction

H350 – May cause cancer (inhalation)

Precautionary Statements

Precautionary:

- P 201:- Obtain special instructions before use
P202: Do not handle until all safety instructions have been read and understood.
P261: - Avoid breathing mist, spray or vapour.
P280:- Wear goggles, gloves, clothing and respiratory protection.
P272:- Contaminated work clothing should not be allowed

Response

- P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P308+P313 – IF EXPOSED or concerned: get medical attention.
P363 – Wash contaminated clothing before re-use.
P501 – Dispose of contents/container to hazardous waste site.

2.3 Other Hazards:

- Spillage may cause slippery conditions.
On exposure to high temperature, may decompose, releasing toxic vapours.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable

3.2 Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
UREA FORMALDEHYDE RESIN	CAS-No.: 9011-05-6	40 – 70	Skin Sens. 1A, H317
FORMALDEHYDE	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	0.3 – 0.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335

Specific concentration limits:

FORMALDEHYDE	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	(0.2 ≤ C < 100) Skin Sens. 1, H317 (5 ≤ C < 100) STOT SE 3, H335 (5 ≤ C < 25) Eye Irrit. 2, H319 (5 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 100) Skin Corr. 1B, H314
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Full text of H- and EUH-statements see Section 16

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General:

If exposed or concerned: get medical attention.

First aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. Remove contaminated clothing immediately. If exposed or concerned obtain medical attention.

First aid measures after skin contact:

Wash skin with water. Remove contaminated clothing. If skin irritation occurs, obtain medical attention.

First aid measures after eye contact:

Rinse eyes with water, remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First aid measures after ingestion:

Rinse mouth with water. Do not induce vomiting. Obtain medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation:

On heating may cause irritation to nasal mucous membranes. Headache.

Symptoms/injuries after skin contact:

May cause allergic skin reaction.

Symptoms/injuries after eye contact:

May cause eye irritation.

Symptoms/injuries after ingestion:

May cause gastrointestinal irritation mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray. Dry powder. Foam. Carbon dioxide.

Not suitable:

None

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire:

Toxic fumes may be released.

5.3 Advise for firefighters

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Prevent fire water from entering the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General Measures:

Spilled material may cause slippery conditions.

6.1.1 For non- emergency responders:

Personal protective equipment: Gloves, goggles, protective apron. Wear suitable respiratory protection in case of inadequate ventilation.

Emergency Procedures:

Ventilate area. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing fume/mist/vapour/spray.

6.1.2 For Emergency Responders:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions:

Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up:

Methods for cleaning up:

Take up liquid spill into absorbent material.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections:

For further information refer to section 8, 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid breathing/mist/vapour/spray.

Hygiene measures:

Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities:

Storage conditions:

Store in a well ventilated area. Keep cool. Keep only in original container. Store in a closed container. Avoid freezing. Recommended temperature >4°C.

Incompatible products:

Strong acid, strong base.

Incompatible materials:

Excessive heat.

7.3 Specific end users:

No additional information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

FORMALDEHYDE (50-00-0)	
South Africa HCS Regulations	
OEL TWA CL	2ppm/2.5mg/m ³
OEL STEL CL	2ppm/2.5mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Provide eye wash and shower in work area. Ensure good ventilation of the work station.

Personal protective equipment:

Hand protection

Protective gloves

Eye protection

Safety goggles

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Use a gas mask at exposure level >1mg/m³.



Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Product form:	Liquid
Appearance	Clear colourless to opaque white liquid.
Odour	Faint formaldehyde odour.
Odour threshold	No data available
pH	7-9
Relative evaporation rate (butylacetate=1)	No data available
Freezing point	0°C
Boiling point	~100°C
Flash point	>100°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative vapour density @20°C	No data available
Relative density (@ 20°C)	No data available
Density (@ 20°C)	1,27 – 1.29g/cm ³

Solubility	Miscible with water
Log Pow (noctanol/water coefficient)	No data available
Viscosity, kinematic (@ 40°C)	No data available
Viscosity, dynamic (@ 20°C)	295 – 560 @25degC, Spindle 2, 30rpm
Explosive properties	No data available
Explosive limits	No data available
Oxidising properties	No data available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity:

The product is non-reactive under recommended conditions of use, storage and transport.

10.2 Chemical stability

Product polymerises with time. Solidifies with heat, acidic and strong alkaline conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials.

Strong acids, strong bases.

10.6 Hazardous decomposition products

When heated to decomposition, emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhal)	Not classified

FORMALDEHYDE (50-00-0)	
LD50 oral	100 mg/kg bodyweight
LD50 dermal	270 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	0.497 mg/l

Skin corrosion/irritation	Not classified. pH 7-9
Serious eye damage/irritation	Not classified. pH 7-9
Respiratory or skin sensitisation	May cause allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects (if inhaled).

Carcinogenicity	Nasal cavity carcinomas developed at formaldehyde levels >15ppm. This level would not be tolerated by humans voluntarily.
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified.
Specific target organ toxicity (repeated exposure)	Not classified.
Aspiration hazard	Not classified

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity – general:

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

FORMALDEHYDE (50-00-0)	
LC50 Fish	6.7 mg/l (96hr)
EC50 invertebrates	5.8 mg/l waterflea (48hr)
EC50 Algae	3.48 mg/l (72hr)

12.2 Persistence and degradability

All urea-formaldehyde resins degrade by: Slow hydrolysis to urea and formaldehyde; formaldehyde oxidizes rapidly to formic acid which in turn oxidizes to carbon dioxide and water; urea hydrolyses to ammonia and carbon dioxide; ammonia oxidized to nitrates which can be absorbed by plants.

12.3 Bioaccumulative potential

Formaldehyde (50-00-0):
Partition coefficient n-octanol/water (Log Pow) = 0.35
No additional information available

12.4 Mobility

Not toxic to plants.

12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

No additional information available.

SECTION 13 DISPOSAL CONSIDERATIONS

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Solidified resin: dispose at approved landfill site. Semi-solid resin: allow to solidify completely before disposal. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

	ADR	IMDG	IATA	Class Diamond
UN Number	Not regulated	Not regulated	Not regulated	-
Proper Shipping Name	Not regulated	Not regulated	Not regulated	
Hazard Class	Not regulated	Not regulated	Not regulated	
Packing Group	Not regulated	Not regulated	Not regulated	
Marine pollutant	No	No	No	

SECTION 15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****15.1.1 EU Regulation (EC) No. 1907/2006 (REACH)**

No REACH Annex XVII restrictions.

The components of the product are not on the REACH Candidate List

The components of the product are not on the REACH Annex XIV List

15.1.2 National Regulations:

No additional information available

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16 OTHER INFORMATION

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

SDS EU AECI Industrial Chemicals, a Division of AECI Ltd

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SAFETY DATA SHEET
INKUNITE 385



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Revision History		
Date	Revision Number	Amendments
08/10/2017	Revision 1.1	Original document in GHS format
15/02/2022	Revision 1.2	Company name, logo and format updated.