SAFETY DATA SHEET

INTERFINE 979 Blued White Part A

Section 1. Identification

INTERFINE 979 Blued White Part A : **GHS product identifier**

SYC000 : **Product code**

Identified uses
Professional application of coatings and inks

Uses advised against	Reason
All Other Uses	

International Farg AB
Holmedalen 3
Aspereds Industriomrade
SE-424 22 Angered
Sweden

Tel: +46 (0) 31 928500 Fax: +46 (0) 31 928530

: **Supplier's details**

+46 8 33 12 31 : **Emergency telephone number (with hours of operation)**

+966 55 388 0087 : **National advisory body/ Poison Centre (For use only by licensed medical professionals.)**

sdsfellinguk@akzonobel.com : **e-mail address of person responsible for this SDS**

Section 2. Hazards identification

FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1

: **Classification of the substance or mixture**

GHS label elements

: **Hazard pictograms**

Warning : **Signal word**

Flammable liquid and vapour. : **Hazard statements**
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.

Precautionary statements

Section 2. Hazards identification

Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid breathing vapour. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. : **Prevention**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash 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. : **Response**

Store in a well-ventilated place. Keep cool. : **Storage**

Dispose of contents and container in accordance with all local, regional, national and international regulations. : **Disposal**

Wear appropriate respirator when ventilation is inadequate. : **Supplemental label elements**

None known. : **Other hazards which do not result in classification**

Section 3. Composition/information on ingredients

Mixture : **Substance/mixture**

Classification	CAS number	% by weight	Ingredient name
Skin Irrit. 3, H316	13463-67-7	≥25 - ≤50	titanium dioxide
Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	13048-33-4	≥10 - ≤20	hexamethylene diacrylate
Flam. Liq. 2, H225 Acute Tox. 5, H303 Skin Irrit. 3, H316 Eye Irrit. 2A, H319 STOT SE 3, H336	67-63-0	≤5	Isopropyl alcohol
Skin Sens. 1, H317 Aquatic Chronic 4, H413	911674-82-3	≤3	Amides, castor-oil, hydrogenated, N,N'-[1, 3-phenylene-bis(methylene)] bis-
Flam. Liq. 3, H226 STOT SE 3, H336	123-86-4	≤3	n-butyl acetate

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

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.	: **Eye contact**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Seek medical attention. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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.	: **Inhalation**
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	: **Skin contact**
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.	: **Ingestion**

Most important symptoms/effects, acute and delayed

Potential acute health effects

Causes serious eye irritation.	: **Eye contact**
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.	: **Inhalation**
Causes skin irritation. May cause an allergic skin reaction.	: **Skin contact**
Irritating to mouth, throat and stomach.	: **Ingestion**

Over-exposure signs/symptoms

Adverse symptoms may include the following: pain or irritation watering redness	: **Eye contact**
Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness	: **Inhalation**
Adverse symptoms may include the following: irritation redness	: **Skin contact**
No specific data.	: **Ingestion**

Indication of immediate medical attention and special treatment needed, if necessary

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.	: **Notes to physician**
No specific treatment.	: **Specific treatments**

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. : **Protection of first-aiders**

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Use dry chemical, CO_2, water spray (fog) or foam. : **Suitable extinguishing media**

Do not use water jet. : **Unsuitable extinguishing media**

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. : **Specific hazards arising from the chemical**

Decomposition products may include the following materials: : **Hazardous thermal decomposition products**
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. : **Special protective actions 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. : **Special protective equipment for fire-fighters**

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. : **For non-emergency personnel**

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". : **For emergency responders**

Avoid dispersal of spilt 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). : **Environmental precautions**

Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. : **Small spill**

Section 6. Accidental release measures

Large spill :

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.

Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Vapours are heavier than air and may spread along floors. Separate from oxidizing materials. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	Ingredient name
ACGIH TLV (United States, 3/2015). TWA: 10 mg/m³ 8 hours.	titanium dioxide
ACGIH TLV (United States, 3/2015). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.	Isopropyl alcohol
ACGIH TLV (United States, 3/2015). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours.	n-butyl acetate

Appropriate engineering controls :

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 8. Exposure controls/personal protection

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.

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. Contaminated work clothing should not be allowed out of the workplace. 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. Use eye protection according to EN 166, designed to protect against liquid splashes. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection :

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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.EN ISO 13688 When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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 according to EN529. 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.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : White.

Odour : Solvent.

Odour threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : Not available.

Section 9. Physical and chemical properties

Closed cup: 36°C (96.8°F)	:	**Flash point**
Not available.	:	**Evaporation rate**
Not available.	:	**Flammability (solid, gas)**
Not available.	:	**Lower and upper explosive (flammable) limits**
Not available.	:	**Vapour pressure**
Not available.	:	**Vapour density**
1.41	:	**Relative density**
Insoluble in the following materials: cold water.	:	**Solubility**
Not available.	:	**Partition coefficient: n-octanol/water**
Not available.	:	**Auto-ignition temperature**
Not available.	:	**Decomposition temperature**
Kinematic (room temperature): 235 mm^2/s (235 cSt)	:	**Viscosity**

Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients.	:	**Reactivity**
The product is stable.	:	**Chemical stability**
Under normal conditions of storage and use, hazardous reactions will not occur.	:	**Possibility of hazardous reactions**
Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.	:	**Conditions to avoid**
Reactive or incompatible with the following materials: oxidizing materials	:	**Incompatible materials**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.	:	**Hazardous decomposition products**

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Exposure	Dose	Species	Result	Product/ingredient name
4 hours	6.82 mg/l	Rat	LC50 Inhalation Dusts and mists	titanium dioxide
-	>5000 mg/kg	Rat	LD50 Oral	
-	5 g/kg	Rat	LD50 Oral	hexamethylene diacrylate
-	12800 mg/kg	Rabbit	LD50 Dermal	Isopropyl alcohol
-	5000 mg/kg	Rat	LD50 Oral	
-	>17600 mg/kg	Rabbit	LD50 Dermal	n-butyl acetate
-	10768 mg/kg	Rat	LD50 Oral	

Irritation/Corrosion

Section 11. Toxicological information

Observation	Exposure	Score	Species	Result	Product/ingredient name
-	72 hours 300 Micrograms Intermittent	-	Human	Skin - Mild irritant	titanium dioxide
-	24 hours 500 milligrams	-	Rabbit	Skin - Severe irritant	hexamethylene diacrylate
-	24 hours 100 milligrams	-	Rabbit	Eyes - Moderate irritant	Isopropyl alcohol
-	10 milligrams	-	Rabbit	Eyes - Moderate irritant	
-	100 milligrams	-	Rabbit	Eyes - Severe irritant	
-	500 milligrams	-	Rabbit	Skin - Mild irritant	
-	100 milligrams	-	Rabbit	Eyes - Moderate irritant	n-butyl acetate
-	24 hours 500 milligrams	-	Rabbit	Skin - Moderate irritant	

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Target organs	Route of exposure	Category	Name
Narcotic effects Narcotic effects	Not applicable. Not applicable.	Category 3 Category 3	Isopropyl alcohol n-butyl acetate

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Not available. : **Information on likely routes of exposure**

Potential acute health effects

Causes serious eye irritation. : **Eye contact**

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. : **Inhalation**

Causes skin irritation. May cause an allergic skin reaction. : **Skin contact**

Irritating to mouth, throat and stomach. : **Ingestion**

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Adverse symptoms may include the following: pain or irritation watering redness	: **Eye contact**
Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness	: **Inhalation**
Adverse symptoms may include the following: irritation redness	: **Skin contact**
No specific data.	: **Ingestion**

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Not available.	: **Potential immediate effects**
Not available.	: **Potential delayed effects**

Long term exposure

Not available.	: **Potential immediate effects**
Not available.	: **Potential delayed effects**

Potential chronic health effects

Not available.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	: **General**
No known significant effects or critical hazards.	: **Carcinogenicity**
No known significant effects or critical hazards.	: **Mutagenicity**
No known significant effects or critical hazards.	: **Teratogenicity**
No known significant effects or critical hazards.	: **Developmental effects**
No known significant effects or critical hazards.	: **Fertility effects**

Numerical measures of toxicity

Acute toxicity estimates

ATE value	Route
101225.9 mg/kg	Oral

Section 12. Ecological information

Toxicity

Exposure	Species	Result	Product/ingredient name
96 hours	Fish - Oncorhynchus mykiss	Acute LC50 >100 mg/l	titanium dioxide
48 hours	Crustaceans - Crangon crangon	Acute LC50 1400000 to 1950000 µg/l Marine water	Isopropyl alcohol
96 hours	Fish - Gambusia affinis	Acute LC50 1400000 µg/l	
48 hours	Crustaceans - Artemia salina - Nauplii	Acute LC50 32000 µg/l Marine water	n-butyl acetate
96 hours	Fish - Danio rerio	Acute LC50 62000 µg/l	

Section 12. Ecological information

Persistence and degradability

Not available.

Bioaccumulative potential

Potential	BCF	$LogP_{ow}$	Product/ingredient name
low	352	-	titanium dioxide
low	-	2.81	hexamethylene diacrylate
low	-	0.05	Isopropyl alcohol
low	-	2.3	n-butyl acetate

Mobility in soil

Not available. : **Soil/water partition coefficient (K_{OC})**

No known significant effects or critical hazards. : **Other adverse effects**

Section 13. Disposal considerations

: **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. 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.

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 or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

IATA	IMDG	UN	
UN1263	UN1263	UN1263	**UN number**
PAINT	PAINT	PAINT	**UN proper shipping name**
3 	3 	3 	**Transport hazard class(es)**
III	III	III	**Packing group**
No.	No.	No.	**Environmental hazards**
-	-	-	**Additional information**

Not applicable. : **IMDG Code Segregation group**

Section 14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: **Special precautions for user**

Not available.

: **Transport in bulk according to Annex II of Marpol and the IBC Code**

Section 15. Regulatory information

No known specific national and/or regional regulations applicable to this product (including its ingredients).

: **Safety, health and environmental regulations specific for the product**

Section 16. Other information

Justification

Justification	Classification
On basis of test data Calculation method Calculation method Calculation method	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

History

04/04/2019 : **Date of printing**

04/04/2019 : **Date of issue/Date of revision**

30/05/2017 : **Date of previous issue**

4 : **Version**

: **Key to abbreviations**

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Not available. : **References**

Indicates information that has changed from previously issued version.

Notice to reader

IMPORTANT NOTE: the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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Section 16. Other information

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