ENA301_B4

Safety Data Sheet

INTERSHIELD 300 ALUMINUM PART A

Bulk Sales Reference No.: ENA301 SDS Revision Date: 04/08/2016 SDS Revision Number: B4



1. Identification of the preparation and company

1.1. Product identifier

Product Identity INTERSHIELD 300 ALUMINUM PART A

Bulk Sales Reference Number ENA301

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Intended Use
 See Technical Data Sheet.
 Application Method
 See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name International Paint Ltda

ARGENTINA:

Ruta Panamericana Km 37,5 Garin, Buenos Aires PO Box: B1606DQE **AKZONOBEL CHILE:**

Calle Limache 3363 Local 3, El Salto

Viña del Mar, Chile

C.P. 2520642 - Rut 76.048140-8

BRAZIL:

Avenida Paiva, 999 - Neves

Sao Goncalo, RJ 24426-148 Brazil

Emergency

Suatrans Cotec 0800 7071 767 or 0800 7077 022 or 0800 172020 or

55*2*7500 (24 hr)

International Paint ARGENTINA:

+54 3327 44 7777

CHILE:

+56 32 267 1174

BRAZIL:

+55 21 2199-7100

Poison Control Center (Brazil) 0800-0148110 or +55 11 3069-8800 Medical Service (Argentina) +54 3327 44 7144 or +54 3327 44 7282

Firefighter/HSE (Argentina) +54 3327 44 7123

Customer Service ARGENTINA:

+54 3327 44 7777 Fax: +54 3327 44 7738

CHILE:

+56 32 267 1174 Fax: +56 32 263 1496

BRAZIL:

+55 21 2199-7100 Fax: +55 21 2199-7124

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226 Skin Irrit. 2;H315 Eye Dam. 1;H318 Skin Sens. 1;H317 Aquatic Acute 2;H401 Aquatic Chronic 3;H412

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.







Danger.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe mist / vapours / spray.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P262 Do not get in eyes, on skin, or on clothing.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 IF ON SKIN: Wash with soap and water.

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370 In case of fire: Use water spray, fog, or regular foam..

P403+233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

and rederal nazardede edebtanece regulations.					
Ingredient/Chemical Designations	Weight %				
Polymer of epoxy resin and bisphenol A CAS Number: 0025036-25-3	25 - 50				
Talc CAS Number: 0014807-96-6	10 - 25				
Xylenes (o-, m-, p- isomers) CAS Number: 0001330-20-7	10 - 25				
Kaolin CAS Number: 0001332-58-7	1.0 - 10				
Aluminum CAS Number: 0007429-90-5	1.0 - 10				
Petroleum naphtha CAS Number: 0064742-95-6	1.0 - 10				
Butanol CAS Number: 0000071-36-3	1.0 - 10				

Silica, amorphous, fumed, crystfree		1.0 - 10
CAS Number:	0112945-52-5	
Benzene, ethyl-		1.0 - 10
CAS Number:	0000100-41-4	

4. First aid measures

4.1. Description of first aid measures

General Remove contaminated clothing and shoes. Get medical attention immediately. Wash

clothing before reuse. Thoroughly clean or destroy contaminated shoes.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention immediately.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyes

Get medical attention immediately.

Skin In case of contact, immediately flush skin with soap and plenty of water. Get medical

attention immediately.

Ingestion If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT

induce vomiting unless instructed to do so by medical personnel. Never give anything

by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Overview NOTICE: Reports have associated repeated and prolonged occupational

> overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be

harmful or fatal. Avoid contact with eyes, skin and clothing.

Inhalation Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or

nervous system causing dizziness, headache or nausea.

Eyes Causes severe eye irritation. Avoid contact with eyes.

Skin Causes skin irritation. May cause allergic skin reaction. May be harmful if absorbed

through the skin.

Ingestion Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or

drowsiness.

Chronic effects Possible cancer hazard. Contains an ingredient which may cause cancer based on

animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer

depends on duration and level of exposure.

5. Fire-fighting measures

5.1. Extinguishing media

Appropriate

Water in form of fog, Co2, foam or dry chemical dust. **Extinguishing Methods**

Inappropriate

Extinguishing Methods

Direct water spray into fire

Specific Hazards Can liberate toxic fumes or gases during the burning. For decomposition see section

5.2. Special hazards arising from the substance or mixture

Special Methods Evacuate the area and to fight the fire at a safe distance upwind. Use water in fog to

cool containers near the fire. Keep runoff from entering sewer. Extinguishing water

must be disposed according to local legislation.

5.3. Advice for fire-fighters

Firefighter Protection In fire case, to use personal respiratory device and suits for protection.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in Personal precautions

immediate area). Use only non-sparking equipment to handle spilled material and

absorbent. Do not touch or walk through spilled material.

Public Safety Call Suatrans Cotec 0800 7071 767 or 0800 7077 022 or 0800 17 2020 or 55*2*7500

(24 hr) for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use

non-sparking tools to collect absorbed material.

6.2. Environmental precautions

Environmental Precations

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.

6.3. Methods and material for containment and cleaning up

Clean Up Method Cover with sand or other non-cumbustible material. Transfer absorbed material with a

non-sparking tool

7. Handling and storage

7.1. Precautions for safe handling

Handle the packages with care in order to avoid damage and spillage.

Be aware of the precautions referred to on the label.

Avoid contact with the eyes and the skin. Avoid swallowing of vapor and the pulverizations. Be aware of the precautions referred to on the label. Use personal protection equipment according to the section 8. No smoking, drinking or eating in the application areas.

All the ignition sources (hot surfaces, sparks, unprotected flames, etc.) must be excluded from the areas of manufacturing and application. The storage areas, the preparation and the application must be well ventilated. The product can be carried electrostatically. Always use grounding cables when transferring solvents or product. The operators must use adequate outfits which shall not develop static current. (at least 60% of natural fiber) and anti-static shoes.

Solvents based products: The solvent vapors are heavier than the air and can concentrate on the floor and explosive mixtures may be formed with the air.

Water based products: It does not require special cares for not being inflammable or explosive. Use only the indicated personal protection equipments.

$7.2. \ Conditions \ for \ safe \ storage, \ including \ any \ incompatibilities$

Store between 40-100F (4-38C).

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000071-36-3	Butanol	ACGIH	20 ppm TWA
		Brazil	40 ppm TWA LT; 115 mg/m3 TWA LT
0000100-41-4	Benzene, ethyl-	ACGIH	20 ppm TWA
		Brazil	78 ppm TWA LT; 340 mg/m3 TWA LT
0001330-20-7	Xylenes (o-, m-, p- isomers)	ACGIH	100 ppm TWA150 ppm STEL
		Brazil	78 ppm TWA LT; 340 mg/m3 TWA LT
0001332-58-7	Kaolin	ACGIH	2 mg/m3 TWA (particulate matter containing no asbestos and
		Brazil	
0007429-90-5	Aluminum	ACGIH	1 mg/m3 TWA (respirable fraction)
		Brazil	
0014807-96-6	Talc	ACGIH	2 mg/m3 TWA (particulate matter containing no asbestos and
		Brazil	
0025036-25-3	Polymer of epoxy resin and	ACGIH	
	bisphenol A	Brazil	
0064742-95-6	Petroleum naphtha	ACGIH	
		Brazil	
0112945-52-5	Silica, amorphous, fumed,	ACGIH	
	crystfree	Brazil	

Health Data

CAS No.	Ingredient	Source	Value
0000071-36-3	Butanol		Eye and mucous membrane irritation CNS depression
0000100-41-4	Benzene, ethyl-	NIOSH	Eye skin
0001330-20-7	Xylenes (o-, m-, p- isomers)		Central nervous system depressant; respiratory and eye irritation
0001332-58-7	Kaolin		Skin and mucous membrane injury respiratory effects

ENA301_B4

0007429-90-5	Aluminum		Lung changes that may lead to pulmonary fibrosis; respiratory and skin irritation
0014807-96-6	Talc		(containing asbestos); Fibrotic pneumoconiosis; (containing no asbestos); Nonmalignant respiratory effects
0025036-25-3	Polymer of epoxy resin and bisphenol A	NIOSH	
0064742-95-6	Petroleum naphtha	NIOSH	
0112945-52-5	Silica, amorphous, fumed, crystfree	NIOSH	

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000071-36-3	Butanol	OSHA	Select Carcinogen: No
			Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000100-41-4	Benzene, ethyl-	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0001330-20-7	Xylenes (o-, m-, p-	OSHA	Select Carcinogen: No
	isomers)	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001332-58-7	Kaolin	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007429-90-5	Aluminum	OSHA	Select Carcinogen: No
	NTP	Known: No; Suspected: No	
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0014807-96-6	Talc	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0025036-25-3	Polymer of epoxy resin	OSHA	Select Carcinogen: No
	and bisphenol A	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0064742-95-6	Petroleum naphtha	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0112945-52-5 Silica, amorphous, OSHA		OSHA	Select Carcinogen: No
	fumed, crystfree	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Exposure controls

Respiratory Protection Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

Eye and face protection

Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 8 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment

must be thoroughly cleaned, or discarded after each use.

Skin and body protection

Protective equipment should be selected to provide protection from exposure to the

chemicals listed in Section 8 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded

after each use.

Engineering Controls Prevent build-up of vapors by opening all windows and doors to achieve

cross-ventilation.

Emergency eye wash fountains and safety showers should be available in the **Special Precations**

immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of

soap and water.

9. Physical and chemical properties

Metallic Coloured Liquid Appearance

Odour threshold Not Measured No Established Limit На Melting point / freezing point Not Measured

Initial boiling point and boiling range 138.8 (°C) 281.9 (°F) Flash Point 28 (°C) 82.4 (°F) Evaporation rate (Ether = 1) Not Measured Flammability (solid, gas) Not Applicable

Upper/lower flammability or explosive

Lower Explosive Limit: .8

Upper Explosive Limit: No Established Limit

Vapour pressure (Pa) Not Measured Vapor Density Heavier than air

Specific Gravity 1.35

Solubility in Water Not Measured Partition coefficient n-octanol/water (Log Not Measured Kow)

Auto-ignition temperature Not Measured Decomposition temperature Not Measured

Viscosity (cSt) No Established Limit Not Measured

Refer to the Technical Data Sheet or label where information is VOC %

available.

10. Stability and reactivity

10.1. Reactivity

Keep away from alkaline or strong strong acid to prevent probable exothermal reactions.

10.2. Chemical stability

This product is stable

10.3. Possibility of hazardous reactions

Dangerous Polymerization will not occur. Heat and vapors in excess can be generated when inproperly used.

10.4. Conditions to avoid

Keep away from alkaline or strong strong acid to prevent probable exothermal reactions.

Strong oxidizing agents

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Can liberate toxic vapors in the welding process. The vapors can produce Dioxide and Monoxide of Carbon.

11. Toxicological information

Acute toxicity

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. No additional information provided for this product. See Sections 3 and 8 for chemical specific data.

Ingredient		

ENA301_B4

	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
Polymer of epoxy resin and bisphenol A - (25036-25-3)	No data available	No data available	No data available	No data available
Talc - (14807-96-6)	No data available	No data available	No data available	No data available
Xylenes (o-, m-, p- isomers) - (1330-20-7)	4,299.00, Rat - Category: 5	1,548.00, Rabbit - Category: 4	20.00, Rat - Category: 4	No data available
Kaolin - (1332-58-7)	No data available	No data available	No data available	No data available
Aluminum - (7429-90-5)	No data available	No data available	No data available	No data available
Petroleum naphtha - (64742-95-6)	6,800.00, Rat - Category: NA	3,400.00, Rabbit - Category: 5	No data available	No data available
Butanol - (71-36-3)	2,292.00, Rat - Category: 5	3,430.00, Rabbit - Category: 5	No data available	No data available
Silica, amorphous, fumed, crystfree - (112945-52-5)	3,160.00, Rat - Category: 5	No data available	No data available	No data available
Benzene, ethyl (100-41-4)	3,500.00, Rat - Category: 5	15,433.00, Rabbit - Category: NA	17.20, Rat - Category: 4	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Eye damage/irritation	1	Causes serious eye damage.
Sensitization (respiratory)		Not Applicable
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity		Not Applicable
Reproductive Toxicity		Not Applicable
Specific target organ systemic toxicity (single exposure)		Not Applicable
Specific target organ systemic Toxicity (repeated exposure)		Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 199/45/CE and is classified according to the same as for the environment. For details, see sections 8 and 11. There are no data available on the product. Avoid contamination of drains or watercourses

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Polymer of epoxy resin and bisphenol A - (25036-25-3)	Not Available	Not Available	Not Available
Talc - (14807-96-6)	Not Available	Not Available	Not Available
Xylenes (o-, m-, p- isomers) - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Kaolin - (1332-58-7)	Not Available	Not Available	Not Available

ENA301_B4

Aluminum - (7429-90-5)	0.12, Oncorhynchus mykiss	3.50, Daphnia magna	Not Available
Petroleum naphtha - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
Silica, amorphous, fumed, crystfree - (112945-52-5)	Not Available	Not Available	Not Available
Benzene, ethyl (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

General Method of treatment and disposal Note: Disposal must be in accordance with the federal, state and local regulations. Product: The treatment and the disposal of the product must in accordance the local legislation.

Remaining portions of the product: Residues that will not be used must be discarded in accordance the local legislation. Used packing: Do not reuse the packing. Recycle

if appropriate or discard in accordance the local legislation.

14. Transport information

14.1. UN number UN 126314.2. UN proper shipping name PAINT

14.3. Transport hazard class(es)

Domestic Surface Transportation

Proper Shipping Name

PAINT

UN 1263

.

Hazard Class 3

UN / NA Number Packaging Group

CERCLA/DOT RQ 62 gal. / 694 lbs.

Risk Number 30

Air Transport (ICAO-ITI / IATA-DGR)

Proper Shipping PAINT

Name

Hazard Class 3 UN / NA Number UN 1263

Packaging Group III

Fackaging Group in

14.4. Packing group III

14.5. Environmental hazards

IMDG Marine Pollutant: No

IMO / IMDG (Ocean Transportation)

IMDG Proper PAINT

Shipping Name

IMDG Hazard Class 3 - Flammable and

Combustible liquid

UN / NA Number UN 1263

IMDG Packing Group III System Reference 2

Code

EMS F-E,S-E

Marine Pollutant No

14.6. Special precautions for user

Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

Regulatory Overview

Decreto 2.657, from 3/07/98, regarding the Safety in the Utilization of Chemical Products at Work.

Act # 96.044 of 18/05/88. Regulations of Road Transport of Dangerous Products. Decreto 1.797, of 25/01/1996, Bill of Hazardous Products in the Mercosul range. Resolution ANTT # 420, of 12/02/2004: complementary instructions to the Regulation of Road Transport of Hazardous Products.

Decreto 3214 of MTE

NBR 7500: Identification for the road transport, the handling, the moving and the storage of products.

NBR 7501: Terminology Transport of Hazardous Products.

NBR 7503: Road transport of hazardous products emergency form and envelope

Features, dimensions and filling.

NBR 9735: Set of equipments for Emergency in the Road Transport of Hazardous Products Procedures. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA

Inventory.

WHMIS Classification B2 D2B E

16. Other information

The information contained in this Material Safety Data Sheet (MSDS) has the purpose of being a description of the product safety requirements, which were obtained from the literature and current legislation specific about raw materials/ingredients. Thus, the accuracy of the data contained herein is not, expressly or implicitly, assured by the Manufacturer. The product shall not be used for purposes other than the ones specified by the Manufacturer. The user is always liable for taking all required measures to comply with the provisions in this MSDS, as well as with the requirements expressed in the regulations and effective legislation.

Bibliographic references:

- Council Directive 67/548/EEC of June 27, 1967.
- Work and Job department clause # 3.214 of June 08, 1978.
- ABNT NBR 14725 (parts I,II,III and IV) Chemical products Information on safety, health and environment.

Specific use: product meant only for professional use, check the product data sheet.

CAS: Chemical Abstract Service register number
It s a register number indicated by the American Chemical Society, which identifies only a specific chemical component.

> ENA301 B4 End of Document



Your attention is drawn to the disclaimer on the Product Data Sheet which with this Safety Data Sheet and the package labelling comprise an integral information system about this product. Copies of the Product Data Sheet are available from International Paint on request or from our Internet sites: www.yachtpaint.com, www.international-marine.com, www.international-pc.com