

IMSA PLASTICS, S.A. DE C.V.**MANUFACTURE OF POLYCARBONATE SHEETS**

SECURITY DATA SHEET FOR CHEMICAL SUBSTANCES		COMPANY NAME
ISSUED DATE: SEPT, 2003	REVISED DATE: SEPT, 2022	IMSA PLASTICS, S.A. DE C.V.

SECTION I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1. PRODUCER OR IMPORTER NAME IMSA PLASTICS, S.A. DE C.V.		2. IN CASE OF EMERGENCY COMMUNICATE TO PHONE (81) 83-81-0642	
3. COMPLETE ADDRESS			
NIQUEL	# 9210	PARQUE INDUSTRIAL MITRAS	P.C. 66023
	CITY GARCIA	STATE	NUEVO LEON
4. COMERCIAL NAME Solid sheet, corrugated, multiwall sheet and profiles & accessories all brand macrolux (all manufactured with polycarbonate resin)		3. STD WEIGHTS (800, 1300, 1500, 1700, 2500) gr./sqmt	
4. CHEMICAL FAMILY Polycarbonate		5. SYNONYMOUS MACROLUX	

SECTION II. HAZARDS IDENTIFICATIONS

2.1 Classification of the substance or mixture

No classification in accordance with the regulation (ec) no. 1272/2008.

2.2 Label elements

No labeling necessary according to the regulation (ec) no. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (pbt), or very persistent and very bio accumulative (vpvb) at levels of 0.1% or higher

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

Type of product: Co-estruded sheets

3.2 Co-estruded sheets

Polycarbonate

- No dangerous ingredients according to reach-regulation (ec) no. 1907/2006.
- Candidate list of substances of very high concern for authorisation
- This product contains no substances of very high concern in concentrations where an information obligation
- Applies (reach regulation (ec) no. 1907/2006, article 59).

SECTION IV. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact: contact with the hot melt: cool immediately with plenty of water. Do not Remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin Involved. To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

The following information refers to the handling of the product at room temperature. In case of skin contact Wash affected areas thoroughly with soap and plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: no information available.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: no information available

SECTION V. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: sprayed water jet, extinguishing powder, Carbon dioxide (CO₂), Foam, Dry chemical

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION VI. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Sheets - slip hazard!

6.2 Environment related measures

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Use mechanical handling equipment. Avoid dust formation.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION VII. HANDLING AND STORAGE

7.1 Precautions for safe handling

Under recommended processing conditions small amounts of residues of monomers and residual solvent May be emitted. Provided good ventilation and/or local exhaust systems are used, the workplace exposure Limit(s) stated in section 8 should not be exceeded.

In case of mechanical processing, dust must be removed by effective exhaust ventilation.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use Skin-protecting ointment. Change contaminated clothing.

7.2 conditions for safe storage, including any incompatibilities

No special storage conditions required.

7.3 specific end use(s)

No information available.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EH40 WEL				Dermal absorption possible
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EH40 WEL	STEL	4 ppm 16 mg/m ³		
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EH40 WEL	TWA	2 ppm 7.8 mg/m ³		
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m ³		Indicative
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV				Dermal absorption possible
phenol; carboic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV	STEL	4 ppm 16 mg/m ³		Indicative
chlorobenzene	108-90-7	EH40 WEL				Dermal absorption possible
chlorobenzene	108-90-7	EU ELV	TWA	5 ppm 23 mg/m ³		Indicative
chlorobenzene	108-90-7	EU ELV	STEL	15 ppm 70 mg/m ³		Indicative
chlorobenzene	108-90-7	EH40 WEL	TWA	1 ppm 4.7 mg/m ³		
chlorobenzene	108-90-7	EH40 WEL	STEL	3 ppm 14 mg/m ³		
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	EH40 WEL	TWA	10 mg/m ³		
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	EU ELV	TWA	2 mg/m ³		Indicative
General limiting value of dust		EH40 WEL	TWA	10 mg/m ³		inhalable fraction
General limiting value of dust		EH40 WEL	TWA	4 mg/m ³		alveolar fraction

8.2 Exposure controls

Respiratory protection

In case of dust formation use respiratory equipment with filter type particle filter P1 according to EN 143.

Hand protection

Suitable materials for safety gloves; EN 374:

Polyvinyl chloride - PVC (≥ 0.5 mm)

Contaminated and/or damaged gloves must be changed.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear suitable protective clothing.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid at 20 °C at 1,013 hPa
Appearance: Sheet

Colour:	Different according to colouration
Odour:	Odourless
Odour Threshold:	Not established
pH:	Not applicable
Softening point:	130 - 160 °C
Boiling point/boiling range:	Not established
Flash point:	Not established
Evaporation rate:	Not established
Flammability:	Not established
Burning number:	Not established
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Relative vapour density:	Not established
Density:	ca. 1.2 - 1.4 g/cm ³
Bulk density:	600 - 700 kg/m ³
Miscibility with water:	Not established
Water solubility:	Practically insoluble
Surface tension:	Not established
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not applicable
Ignition temperature:	> 450 °C
Decomposition temperature:	>= 380 °C
Heat of combustion:	Not established
Viscosity, dynamic:	Not applicable
Viscosity, kinematic:	Not established
Particle characteristics	
Particle size:	Not established

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the product information sheet or the technical information sheet for specification data.

Explosive properties:	Not established
Dust explosion class:	Not established
Oxidising properties:	Not established

SECTION X. STABILITY AND REACTIVITY

10.1 Reactivity

This information is not available.

10.2 Chemical stability

Fumes evolved by overheating during improperly processing or by burning may be injurious to health.

10.3 Possibility of hazardous reactions

No hazardous reactions observed.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed.

Under recommended processing conditions small amounts of emissions may occur.

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

phenol; carboic acid; monohydroxybenzene; phenylalcohol

Index-No. 604-001-00-2

CAS-No.: 108-95-2

Classification (1272/2008/CE): Acute Tox. 3 Oral H301 Acute Tox. 3 Inhalative H331 Acute Tox. 3

Dermal H311 Skin Corr. 1B H314 Eye Dam. 1 H318 Muta. 2 H341 STOT RE 2 H373 Aquatic

Chronic 2 H411

chlorobenzene

Index-No. 602-033-00-1

CAS-No.: 108-90-7

Classification (1272/2008/CE): Flam. Liq. 3 H226 Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315

Aquatic Chronic 2 H411

4-tert-butylphenol

Index-No. 604-090-00-8

CAS-No.: 98-54-4

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361f Aquatic Chronic 1

H410

bisphenol A; 4,4'-isopropylidenediphenol

CAS-No.: 80-05-7

Classification (1272/2008/CE): Repr. 1B H360F STOT SE 3 Inhalative H335 Eye Dam. 1 H318 Skin

Sens. 1 H317 Aquatic Chronic 2 H411

SECTION XI. TOXICOLOGICAL INFORMATION

Toxicological studies on the product are not yet available

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Avoid contact with surface water, sewage and soil

Acute toxicity, oral

No data available.

Acute toxicity, dermal

No data available.

Acute toxicity, inhalation

No data available.

Primary skin irritation
No data available.

Primary mucosae irritation
No data available.

Sensitisation
No data available.

Subacute, subchronic and prolonged toxicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity/Fertility
No data available.

Reproductive toxicity/Developmental Toxicity/Teratogenicity
No data available.

Genotoxicity in vitro
No data available.

Genotoxicity in vivo
No data available.

STOT evaluation – one-time exposure
No data available.

STOT evaluation – repeated exposure
No data available.

Aspiration toxicity
No data available.

11.2 Information on other hazards

Other information

According to our experience and information the product has no harmful effects on health if properly handled

SECTION XII. ECOLOGICAL INFORMATION

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

12.1 Toxicity
No data available.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
No data available.

12.6 Endocrine disrupting properties
No data available.

12.7 Other adverse effects

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable.

SECTION XIII. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

SECTION XIV. TRANSPORT INFORMATION**ADR/RID**

14.1 UN number or ID number:	Not dangerous goods
14.2 UN proper shipping name:	Not dangerous goods
14.3 Transport hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	Not dangerous goods

ADN

14.1 UN number or ID number:	Not dangerous goods
14.2 UN proper shipping name:	Not dangerous goods
14.3 Transport hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	Not dangerous goods

Dangerous goods classification for inland waterways tanker by request only.

IATA

14.1 UN number or ID number:	Not dangerous goods
14.2 UN proper shipping name:	Not dangerous goods
14.3 Transport hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	Not dangerous goods

IMDG

14.1 UN number or ID number:	Not dangerous goods
14.2 UN proper shipping name:	Not dangerous goods
14.3 Transport hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Marine pollutant:	Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information: Not dangerous cargo. Keep dry.

SECTION XV. REGULATORY INFORMATION

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

Water contaminating class (Germany)

nw not water endangering

Identification number according to AwSV: 766

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components.

SECTION XVI. OTHER INFORMATION

Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.

H226	Flammable liquid and vapour.
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.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360F	May damage fertility.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The safety data sheet is also valid for corresponding MAS... types.

Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
ATE	Acute Toxic Estimate
AwSv	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BCF	Bioconcentration Factor
CAS	Chemical Abstract Service
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
CMR	Cancerogenic Mutagenic Reprotoxic
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
EC...	Effect Concentration ... %
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LOAEL	Lowest Observable Adverse Effect Level
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEL	No Observed Adverse Effect Level
NOEL/NOEC	No Observed Effect Level/Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses
STOT	Specific Target Organ Toxicity
TRGS	Technische Regeln für Gefahrstoffe
vPvB	very Persistent, very Bioaccumulative
WGK	Wassergefährdungsklasse

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.