



SAFETY DATA SHEET 1273

SHIELDBASE 180, COVERSHIELD PLUS

SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

PRODUCT NAME	Shieldbase 180, Shieldbase 180 Sanded, CoverShield Plus, Shieldbase 180-Flex, Shieldbase 180-Flex Sanded
TRADE NAME	Laminated cover board
PRODUCT NUMBER	0925xxx, 0925011, 0925023, 0925024
CHEMICAL FAMILY	Not applicable.
FORMULA	Mixture of polyiso insulation, Asphalt, polyester mat, polymers, inert mineral filler, sand, and/or polyethylene film.
PRODUCT USE	Roll roofing
MANUFACTURER/SUPPLIER	IKO Industries Ltd. 87 Orenda Road, Brampton, Ontario, L6W 1V7
WEBSITE	www.iko.com
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The products listed above are considered end-use or manufactured articles, and are not included in the scope of WHMIS 2015 or Globally Harmonization System (GHS). As such, the GHS/WHMIS labeling elements and classification are not included on this SDS.

SIGNAL WORD	Not applicable.
SYMBOL(S)	Not applicable.
CLASSIFICATION	Not applicable.
HAZARD STATEMENTS	H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer
PRECAUTIONARY STATEMENTS	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves, protective clothing, and eye protection. P308+P313 If exposed or concerned: Get medical advice/attention. P501 Dispose of contents/container in accordance with local, regional, national, provincial, territorial, and international regulations.



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NFPA No information available.

HMIS No information available.

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
MODIFIED BITUMEN BASE SHEET :		
Oxidized Asphalt (Bitumen) *	35-70	64742-93-4
Calcium Carbonate **	15-35	1317-65-3
Sand **	7-15	n/a
Polyester Mat	5-10	n/a
Styrene Rubber	3-7	n/a
Polyethylene Film	0-1	9002-88-4
POLYISOCYANURATE INSULATION :		
Polyisocyanurate Foam	10-95	None.
Pentane	2-10	109-66-0
Fiberglass	0-1	65997-17-3

* Note: During heat welding or hot mopping of product (if applicable), small amounts of toxic hydrogen sulfide H₂S (CAS 7783-06-4) may be generated.

** Note: A small portion of crystalline silica (CAS #14808-60-7) can be present in the sand and calcium carbonate used, but it is very unlikely that the concentration will be above the exposure limit.

SECTION 4 – FIRST AID

INHALATION	If exposed to combustion or asphalt fumes, remove victim to fresh air. Seek medical aid for significant exposure to combustion or asphalt fumes.
INGESTION	Not expected to be ingested. If ingested: rinse mouth, drink plenty of water and immediately call for medical help.
SKIN CONTACT	Routine first aid treatment for cuts and abrasions from handling. Wash hands with soap and water after handling. For contact with heated product, cool body part by water immersion or shower. Do not try to remove product from affected area. Seek immediate medical attention.
EYE CONTACT	Flush affected eye in a stream of water for at least 15 minutes. Consult doctor if eye(s) are inflamed.
ACUTE AND CHRONIC SYMPTOMS	Refer to section 11, Toxicological Information, for additional information.



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MEDICAL ATTENTION

No attempt should be made to remove firmly adhering bitumen from the skin. Once bitumen is cool, it does no further harm and provides a sterile covering over burnt area. Bitumen plaque will detach itself as healing progresses. If solvent treatment is used, it should be followed by washing with soap and water, then application of re-fatting agent or skin cleansing cream. Only medically approved solvents may be used to remove bitumen from burns, as other solvents may cause further skin damage.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, water spray.

FIRE FIGHTING

Slightly combustible. When asphalt heated above its flash point or if held in storage at high temperatures, this material can release flammable vapours which can burn in the open or be explosive in confined spaces if exposed to ignition.

FLAMABILITY

No information available.

PROPERTIES:

FLASH POINT 274°C (525°F) minimum for C.O.C. (for asphalt)

FLAMMABLE
LIMITS IN AIR Not applicable.

AUTO IGNITION 370 - 480°C (698 – 867°F) (approx.) (for asphalt)
TEMPERATURE

SPECIAL PPE FOR
FIRE-FIGHTERS Use NIOSH approved self-contained breathing equipment when exposed to product flames or fire, as product will emit very toxic fumes on thermal degradation.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES

Avoid contact with skin and eyes. Avoid dust generation. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.

ENVIRONMENTAL PRECAUTIONS

No information available.

SPILL MANAGEMENT

Normal housekeeping measures. Pick up large pieces and dispose of in accordance with Local, State, Federal and Provincial regulations.



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SECTION 7 - HANDLING AND STORAGE

HANDLING PROCEDURE	Use in well ventilated areas; avoid breathing vapours of hot material. For outdoor use, remain upwind of hot asphalt when possible. Avoid skin and eye contact. When a torch is used to secure the cap sheet, asphalt fumes might be emanated. Use personal protective equipment described in section 8, Exposure Control and Personal Protection.
STORAGE PRECAUTIONS	Store in a dry location protected from the elements, high temperature and flames/sparks.
OTHER PRECAUTIONS	Comply with local safety standards and codes for roof work. Always use Fall Protection Systems when working on roofs. Do not walk on material that has not been securely fastened to the roof deck.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

CHEMICAL NAME	OCCUPATIONAL EXPOSURE LIMITS				
	ALBERTA	ONTARIO	BRITISH COLUMBIA	OSHA	ACGIH
Oxidized Asphalt (Bitumen) Fumes	TWA : 5.0 mg/m ³	TWA : 0.5 mg/m ³	TWA : 0.5 mg/m ³	No information available.	TWA : 0.5 mg/m ³
Calcium Carbonate (Total Dust)	TWA : 10 mg/m ³	TWA : 10 mg/m ³	TWA : 10 mg/m ³ STEL : 20 mg/m ³	TWA : 15 mg/m ³	TWA : 10 mg/m ³
Crystalline Silica (Quartz)	TWA : 0.025 mg/m ³	TWA : 0.10 mg/m ³	TWA : 0.025 mg/m ³	TWA : 0.05 mg/m ³	TWA : 0.025 mg/m ³
Hydrogen Sulfide	TWA : 10 ppm Ceiling : 15 ppm	TWA : 10 ppm STEL : 15 ppm	Ceiling : 10 ppm	Ceiling : 20 ppm Peak : 50 ppm	TWA : 1 ppm STEL : 5 ppm
Polyester Mat	No information available.				
Styrene Rubber	No information available.				
Polyisocyanurate Foam (Total Dust)	TWA : 10 mg/m ³	TWA : 10 mg/m ³	TWA : 10 mg/m ³ STEL : 20 mg/m ³	TWA : 15 mg/m ³	TWA : 10 mg/m ³
Pentane	TWA : 600 ppm	TWA : 600 ppm	TWA : 600 ppm	TWA : 1000 ppm	TWA : 600 ppm
Fiberglass	TWA : 1 f/cc	TWA : 1 f/cc	TWA : 1 f/cc	No information available.	TWA : 1 f/cc

ENGINEERING MEASURES	Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.
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PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION	Not required under normal conditions of use. Wear NIOSH approved respiratory protection if dust or asphalt fume levels are above
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standard exposure limits.

SKIN AND BODY PROTECTION Wear protective gloves. Do not wear synthetic fabric. Replace clothing contaminated with solvents.

EYE PROTECTION Use safety glasses or goggles when necessary.

HYGIENE MEASURES Wash contaminated hands and/or body with water and soap.

OTHER CONTROLS No information available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOR etc.)	Varies colour, foam board with black coated mat
ODOR	Slight petroleum odour
ODOR THRESHOLD	No information available.
PH	No information available.
MELTING POINT/FREEZING POINT	No information available.
INITIAL BOILING POINT AND BOILING RANGE	No information available.
FLASH POINT	274°C (525°F) minimum for C.O.C. (for asphalt)
EVAPORATION RATE	No information available.
FLAMMABILITY	No information available.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	No information available.
VAPOR PRESSURE	No information available.
VAPOR DENSITY	No information available.
MOLECULAR WEIGHT	No information available.
SOLUBILITY(IES)	No information available.
PARTITION COEFFICIENT: N-OCTANOL/WATER	No information available.
AUTO-IGNITION TEMPERATURE	370 - 480°C (698 – 867°F) (approx.) (for asphalt)



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SPECIFIC GRAVITY No information available.

VISCOSITY No information available.

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:

CHEMICAL STABILITY Stable under normal conditions of use.

POSSIBILITY OF
HAZARDOUS REACTIONS No information available.

CONDITIONS TO AVOID Excessive heat approaching flash point.

INCOMPATIBLE MATERIALS Strong oxidizers

HAZARDOUS
DECOMPOSITION PRODUCTS Primarily CO₂, CO. Some HCN possible under certain conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC TOXICITY **WARNING:** This product may contain oxidized bitumens. The International Agency for Research on Cancer (the “IARC”) published a monograph in 2013 which concluded that “occupational exposure to oxidized bitumens and their emissions during roofing operations are probably carcinogenic to humans.” The IARC found that there is “limited evidence” in humans for the carcinogenicity of occupational exposures to bitumens and bitumen emissions during roofing and mastic-asphalt work. The IARC also found that there is “sufficient evidence” in experimental animals for carcinogenicity of fume condensates generated from oxidized bitumen. All other evidence of cancer in humans and experimental animals was judged “inadequate” or “limited.” The physical nature of this product may help limit any inhalation hazard from oxidized asphalt during application in its hardened state. However, physical forces such as grinding, drilling and other demolition work on this product may liberate dust containing oxidized asphalt. Burning or heating of the product may cause fumes, vapors or mists.

WARNING: This product may contain crystalline silica (quartz). IARC MONOGRAPH VOLUME 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification: Group 1

MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE No information available.

PRIMARY ROUTE OF
EXPOSURE Inhalation



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HEALTH EFFECTS:

EYES Dust or hot asphalt fumes may cause eye irritation.

SKIN Contact with hot product may cause thermal burns. Cool material may cause minor skin irritation. Prolonged or repeated contact may cause dryness and skin irritation. Vapors of hot asphalt may cause skin irritation.

INHALATION Fumes from hot material can be unpleasant and may produce irritation of the upper respiratory tract (symptoms may be: nausea, headaches, dizziness, etc.). Dust from mechanical handling of the polyisocyanurate foam might lead to irritation of the mouth, nose, eyes and throat.

INGESTION Not likely to be ingested.

STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE No information available.

STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE No information available.

CARCINOGENICITY Oxidized asphalt is listed as IARC Group 2A (probably carcinogenic to humans).
Crystalline silica (quartz) is listed as IARC Group 1 (is carcinogenic to humans).

REPRODUCTIVE TOXICITY:

DEVELOPMENT OF OFFSPRING No information available.

SEXUAL FUNCTION AND FERTILITY No information available.

GERM CELL MUTAGENICITY No information available.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY No information available.

PERSISTENCE & DEGRADABILITY No information available.

BIODEGRADATION MOBILITY No information available.



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BIOACCUMULATION
POTENTIAL

No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL
RECOMMENDATIONS

Follow federal, provincial/state, and local laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

LAND : US DOT Not regulated

CANADA TDG Not regulated

SECTION 15 - REGULATIONS

WHMIS : This product is not regulated under WHMIS

OSHA : This product is not regulated under OSHA

EPA : This product is not regulated under EAP

US STATE REGULATIONS

State of California Some materials used in this product are known in California as causing cancer or reproductive toxicology.

INVENTORY STATUS

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO)*
Canada	Domestic Substances List (DSL)	YES
Canada	Non-Domestic Substances List (NDSL)	YES
US & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	YES

*A "Yes" indicates this product compliance with the inventory requirements administrated by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administrated by the governing country(s).



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SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS	April 28 2025
REPLACES THE MSDS/SDS FROM	March 07 2025
PREPARED BY	Research Department
GENERAL INFORMATION	1-888-766-2468
WEBSITE	www.iko.com
OTHER INFO/DISCLAMERS	Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.

NOTE: Under government regulations, an SDS is not required for this material; it is an end use product.