

SAFETY DATA SHEET

Intercrete 4820 Grey

Section 1. Identification

Intercrete 4820 Grey : GHS product identifier
NXA420 : Product code

Identified uses	
Professional application of coatings and inks	
Uses advised against	Reason
All Other Uses	

International Paint Ltd. : **Supplier's details**
 Stoneygate Lane
 Felling
 Gateshead
 Tyne and Wear
 NE10 0JY UK
 Tel: +44 (0)191 469 6111 Fax: +44 (0)191 438 3711

+44 (0)191 469 6111 (24H) : **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

SKIN CORROSION/IRRITATION - Category 2 : **Classification of the substance or mixture**
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
 SKIN SENSITIZATION - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 ACUTE AQUATIC HAZARD - Category 2

GHS label elements



: **Hazard pictograms**

Danger : **Signal word**
 Causes serious eye damage.
 Causes skin irritation.
 May cause an allergic skin reaction.
 May cause respiratory irritation.
 Toxic to aquatic life. : **Hazard statements**

Precautionary statements

Section 2. Hazards identification

Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. : **Prevention**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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. Immediately call a POISON CENTER or physician. : **Response**

Store locked up. : **Storage**

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

:

Supplemental label elements

May form explosible dust-air mixture if dispersed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. : **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. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	65997-15-1	≥25 - ≤50	Cement, portland, chemicals
Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412	1305-62-0	≤3	calcium dihydroxide
Skin Sens. 1, H317	12005-25-3	≤3	Calcium aluminate sulphate
Ox. Sol. 3, H272 Acute Tox. 3, H301 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	7632-00-0	<1	sodium nitrite

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

<p>Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.</p>	: Eye contact
<p>Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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.</p>	: Inhalation
<p>Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>	: Skin contact
<p>Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.</p>	: Ingestion

Most important symptoms/effects. acute and delayed

Potential acute health effects

Causes serious eye damage.	: Eye contact
May cause respiratory irritation.	: 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 watering redness	: Eye contact
Adverse symptoms may include the following: respiratory tract irritation coughing	: Inhalation
Adverse symptoms may include the following: pain or irritation redness blistering may occur	: Skin contact
Adverse symptoms may include the following: stomach pains	: Ingestion

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	: Notes to physician
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Section 4. First aid measures

No specific treatment. : **Specific treatments**
 No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 powder. : **Suitable extinguishing media**
 Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. : **Unsuitable extinguishing media**
 May form explosible dust-air mixture if dispersed. This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. : **Specific hazards arising from the chemical**
 Decomposition products may include the following materials: : **Hazardous thermal decomposition products**
 carbon dioxide
 carbon monoxide
 sulfur 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. Do not breathe dust. 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). Water polluting material. May be harmful to the environment if released in large quantities. : **Environmental precautions**

Methods and material for containment and cleaning up

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. : **Small spill**

Section 6. Accidental release measures

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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

: **Large spill**

Section 7. Handling and storage

Precautions for safe handling

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 breathe dust. Do not ingest. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

: **Protective measures**

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.

: **Advice on general occupational hygiene**

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. Store locked up. Eliminate all ignition sources. 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.

: **Conditions for safe storage, including any incompatibilities**

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	Ingredient name
ACGIH TLV (United States, 3/2015). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction	Cement, portland, chemicals
ACGIH TLV (United States, 3/2015). TWA: 5 mg/m ³ 8 hours.	calcium dihydroxide

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, 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.

: **Appropriate engineering controls**

Section 8. Exposure controls/personal protection

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. : **Environmental exposure controls**

Individual protection 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. : **Hygiene measures**

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. : **Eye/face protection**

Skin 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. : **Hand 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. : **Body 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. : **Other skin protection**

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. : **Respiratory protection**

Section 9. Physical and chemical properties

Appearance

Solid. [Powder.]	: Physical state
Grey.	: Colour
Mild.	: Odour
Not available.	: Odour threshold
Not applicable.	: pH
Not available.	: Melting point
Not available.	: Boiling point
Closed cup: Not applicable. [Product does not sustain combustion.]	: Flash point

Section 9. Physical and chemical properties

Not available.	: Evaporation rate
Not available.	: Flammability (solid, gas)
Not applicable.	: Lower and upper explosive (flammable) limits
Not available.	: Vapour pressure
Not available.	: Vapour density
1.98	: Relative density
Not available.	: Solubility
Not available.	: Partition coefficient: n-octanol/water
Not available.	: Auto-ignition temperature
Not available.	: Decomposition temperature
Kinematic (room temperature): Not applicable.	: 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 the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.	: 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
-	7340 mg/kg	Rat	LD50 Oral	calcium dihydroxide

Irritation/Corrosion

Observation	Exposure	Score	Species	Result	Product/ingredient name
-	10 milligrams	-	Rabbit	Eyes - Severe irritant	calcium dihydroxide
-	24 hours 500 milligrams	-	Rabbit	Eyes - Mild irritant	sodium nitrite

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Section 11. Toxicological information

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Target organs	Route of exposure	Category	Name
Respiratory tract irritation	Not applicable.	Category 3	Cement, portland, chemicals
Respiratory tract irritation	Not applicable.	Category 3	calcium dihydroxide

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 damage.

: Eye contact

May cause respiratory irritation.

: 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

Adverse symptoms may include the following:

- pain
- watering
- redness

: Eye contact

Adverse symptoms may include the following:

- respiratory tract irritation
- coughing

: Inhalation

Adverse symptoms may include the following:

- pain or irritation
- redness
- blistering may occur

: Skin contact

Adverse symptoms may include the following:

- stomach pains

: 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

Section 11. Toxicological information

Potential chronic health effects

Not available.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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

Not available.

Section 12. Ecological information

Toxicity

Exposure	Species	Result	Product/ingredient name
96 hours	Fish - Clarias gariepinus - Fingerling	Acute LC50 33884.4 µg/l Fresh water	calcium dihydroxide
72 hours	Algae - Tetraselmis chuii	Acute EC50 159000 µg/l Marine water	sodium nitrite
96 hours	Algae - Tetraselmis chuii	Acute EC50 1600000 µg/l Marine water	
48 hours	Crustaceans - Cherax quadricarinatus	Acute LC50 1100 µg/l Fresh water	
96 hours	Fish - Ictalurus punctatus - Fingerling	Acute LC50 48 µg/l Fresh water	
35 days	Fish - Hippocampus abdominalis - Juvenile (Fledgling, Hatchling, Weanling)	Chronic NOEC 0.912 mg/l Marine water	

Persistence and degradability

Not available.

Bioaccumulative potential

Potential	BCF	LogP _{ow}	Product/ingredient name
low	-	-3.7	sodium nitrite

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

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.

: Disposal methods

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. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

IATA	IMDG	UN	
Not regulated.	Not regulated.	Not regulated.	UN number
-	-	-	UN proper shipping name
-	-	-	Transport hazard class(es)
-	-	-	Packing group
No.	No.	No.	Environmental hazards
The environmentally hazardous substance mark may appear if required by other transportation regulations.	-	-	Additional information

Not applicable.

: IMDG Code Segregation group

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
Calculation method	Skin Irrit. 2, H315
Calculation method	Eye Dam. 1, H318
Calculation method	Skin Sens. 1, H317
Calculation method	STOT SE 3, H335
Calculation method	Aquatic Acute 2, H401

History

25/04/2017

: Date of printing

25/04/2017

: Date of issue/Date of revision

01/06/2016

: Date of previous issue

3

: Version

ATE = Acute Toxicity Estimate

: Key to abbreviations

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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