SAFETY DATA SHEET

fluorochem.

1. Identification of Substance / Mixture

Product Identifier	
1.1.2 Product Name	9,10-Dioxo-9,10-dihydroanthracene-2-carboxylic acid
1.1.2 Other Names	
1.1.1 Product Code	F091483
1.1.3 CAS	117-78-2
1.1.4 MDL	MFCD00001231
1.1.5 EINECS	N/A
1.1.6 REACH Registration Number	
1.2.1 Relevant Uses	For research and development purposes only.
1.2.2 Uses Advised Against	No uses advised against.
1.3 Supplier Details	
1.3.1 Company	Fluorochem Ltd

1.5.1 Company	Fluorochemiclu
1.3.2 Address	Unit 14, Graphite Way Hadfield Glossop Derbys. SK13 1QH United Kingdom
1.3.3 Telephone	01457 860111
1.3.4 Email	sds@fluorochem.co.uk
1.4.1 Emergency Telephone	+44 20 3807 3798

2. Hazards Identification

2.2.1 Signal Word 2.2.2 Pictograms

GHS07 2.2.3 Hazards H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. 2.2.4 Precautions P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280.4 Wear protective gloves/protective clothing and eye/face protection. P302+P352.2 IF ON SKIN: Wash with plenty of water and soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312.1 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment.

Eye Irrit. 2A Skin Irrit. 2 STOT SE 3

Warning

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

2.2.5 Other Classification Hazards

4.1.4 Skin Contact After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediate contaminated clothing immediate contaminated clothing immediate contaminated clothing immediates free static contaminates contaminated clothing immediates contaminates contaminement contaminates contaminates contaminat	3. Composition of Ing					
9.10.0ince-9.10 117.78-2 N/A H315 Skin Intr. 2 9.10.0ince-9.10 H335 Stor 75 E 3 4. First Aid Measures 4.1.1 Eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids introduced by the provide state and easy to do. Continue mining and seek medical automatical statematical automatical statematical automatical statematical automatical statematical state	SUBSTANCE					
aid H319 Eye Imt: 24 H335 STOTS E 3 4. First Aid Measures In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelide attention. 4.1.1 Eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelide attention. 4.1.2 Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical attention. 4.1.3 Inhalation Remove person to fresh air and keep confortable for breathing. If experiencing respiratory problems seek imm medical attention. 4.1.4 Skin Contact After contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing imme In case of skin reactions. consult a physician. 4.1.4 Most Importants Symptoms and Effects No known symptoms or effects. 5.1.1 Multiable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.3 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.1 Avice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafuorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation, Keep personal daw, from spiliblax. 6.1.1 Personal Precautio			Einecs	3.1.3 Composition	Hazards	
4.1.1 Eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids Protect uniqued eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical attention. 4.1.2 Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical attention. 4.1.3 Inhulation Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek immediately with plenty of water and scap. Remove contaminated clothing immediate attention. 4.1.4 Sine Contact After contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing immediate first Aid Measures 4.1.4 Seneral Advice No additional advice. 4.2.1 Insections No known symptoms or effects. 4.3.1 Inmediate First Aid Measures No special immediate treatment required 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.2 Unsuitable Fire Extinguishing Media No known unsuitable media. 5.1.1 Suitable Fire Extinguishing Media No known unsuitable media. 5.1.2 Insuitable Fire Extinguishing Media No known unsuitable media. 5.1.1 Suitable Fire Extinguishing Media No known unsuitable media. 5.1.2 Insuitable Fire Extinguishing Media No known unsuitable media. 6	dihydroanthracene-2-carboxylic	117-78-2	N/A		H319 Eye Irrit. 2A	
At 2 ingestion Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical attention. At 3 ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical attention. At 3 infinition Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek imm medical attention. Atter contact After contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing imme in case of skin reactions, consult a physician. Atter contact No additional advice. As 11 inmediate First Aid Measures No additional advice. S. Firse Fighting Measures No special immediate treatment required 5.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.2 Unsuitable Fire Extinguishing Media Skin any fire, wear self-contained breathing apparts and full protective gear. 6.Accidental Release Measures No known unsuitable media. 5.1 Provent Introde Sand Material Due personal protective equipment. Ensure Hoxafluorine washing solution is to hand. Avoid dust formation. Avoid dust formation, avoid fing vapours, mass is or gas. Ensure adequate venillation. Keep pereconnel away from spilleak.	4. First Aid Measures	3				
4.1.3 Inhalation Remore person to fresh air and keep comfortable for breathing, If experiencing respiratory problems seek immedical attention. 4.1.4 Skin Contact After contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing immediate for contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing immediate for contact with skin, wash immediately with plenty of water and scap. Remove contaminated clothing immediate for consult a physician. 4.1.5 General Advice No known symptoms or effects. 4.2.1 Most Important Symptoms and Effects No special immediate treatment required 5. Fire Fighting Measures No special immediate treatment required 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.2 Insuitable Fire Extinguishing Media No known unsuitable media. 5.1.3 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gaar. 6. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Reep personal away from splitleak. 8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Reep breasting in aritight container. Remove al sources ol ignition. Dispose of approprintely	4.1.1 Eye contact		Protect uninjured eye. Remove contact le			
4.14 Skin Contact Alfar contative in kein, wash immediately with plenty of water and soap. Remove contaminated clothing immediate containing in the second and vice. 4.1.5 General Advice No additional advice. 4.2.1 Most Important Symptoms and Effects No special immediate treatment required 5.5. Fire Fighting Measures No special immediate treatment required 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.2.1 Special Hazards No known unsuitable media. 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.2.1 Special Hazards No known unsuitable media. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. Acccidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avbite athing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from split/leak. 8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avbite dust formation. Avbite dust for anterial with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriate present furthe transferring in airtight container. Remove all sources of ignition. Dispose	4.1.2 Ingestion		Where Diphoterine is not available, rinse	mouth with copious amounts of wate	r. Seek urgent medical advice.	
In case of skin reactions, consult a physician. A.1.5 General Advice No additional advice. A.1.5 General Advice No additional advice. A.1.5 General Advice No additional advice. No additional advice. No additional advice. No special immediate treatment required Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. S.1.1 Suitable Fire Extinguishing Media S.1.2 Unsuitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. No known unsuitable media. Thermal decomposition can lead to release of irritating gases and vapours. A.5.1 Advice for Fire Fighters A is in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained breathing apparatus and full protective gear. As in any fire, wear self-contained to do so. Prevent product from entering drains. Do not let product enter waterwa sever systems. Discharge into the environment must be avoided. Absorb the spilled material with an linet absorbert (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. At 1 Referenced SDS Sections C.1 Handling Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate vertilition, especially if dust, aerosol or furmes will be generated. Avoid contact with skin, eyes and cle for prec	4.1.3 Inhalation		Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek immed			
4.2.1 Most Important Symptoms and Effects No known symptoms or effects. 4.3.1 Immediate First Aid Measures No special immediate treatment required 5. Fire Fighting Measures Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.2.1 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personal away from spill/leak. 8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personal away from spill/leak. 8.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, verniculite) before transferring in artight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 8.4.1 Referenced SDS Sections Thandling 7. Handling and Storage Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from	4.1.4 Skin Contact		After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediat In case of skin reactions, consult a physician.			
4.3.1 Immediate First Aid Measures No special immediate treatment required 5. Fire Fighting Measures Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.1.2 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personal away from spil/leak. 5.2.1 Environmental Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personal away from spil/leak. 5.3.1 Advice Matterials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, verniculite) before transferring in aritight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 7. Handling and Storage Personal Precautions see section 2.2. 7.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to provent the build-up of electrostatic charage. Ensure adequate v	4.1.5 General Advice		No additional advice.	No additional advice.		
5. Fire Fighting Measures 5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.2.1 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 8.2.1 Environmental Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 8.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, verniculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 7. Handling and Storage Vear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hort surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate ventilation, sepacially if dust,	1.2.1 Most Important Symptom	ns and Effects	No known symptoms or effects.			
5.1.1 Suitable Fire Extinguishing Media Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire. 5.2.1 Special Hazards No known unsuitable media. 5.2.1 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 6.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 6.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, slica gel, rag, vermicuite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 6.4.1 Referenced SDS Sections Year appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate versol of furmes will be generated. Avoid contact with skin, eyes and cit For precautions are seed section 2.2. 7.1 Handling Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat	4.3.1 Immediate First Aid Meas	sures	No special immediate treatment required	1		
5.1.2 Unsuitable Fire Extinguishing Media No known unsuitable media. 5.2.1 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 6. ACCIdental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personel away from spiil/leak. 6.2.1 Environmental Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personel away from spiil/leak. 6.3.1 Containment - Methods and Materials Absorb the spiiled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 6.4.1 Referenced SDS Sections Thandling 7. Handling and Storage Vear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate ventilation especially if dust, aerosol or tumes will be generated. Avoid contact with skin, eyes and cle For precautions see section 2.2. 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measur	5. Fire Fighting Meas	sures				
52.1 Special Hazards Thermal decomposition can lead to release of irritating gases and vapours. 5.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 5. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spil/leak. 5.2.1 Environmental Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spil/leak. 5.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 7. Handling and Storage Personal Precautions 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate ventuation, especially if dust, aerosol or furmes will be generated. Avoid contact with skin, eyes and ote For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash	5.1.1 Suitable Fire Extinguishing	ng Media	Carbon dioxide, alcohol resistant foam o	r dry chemical powder. Use water to e	extinguish fire.	
3.3.1 Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear. 5. Accidental Release Measures Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avoir breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 5.2.1 Environmental Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avoir breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 6.3.1 Environmental Precautions Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterwas sever systems. Discharge into the environment must be avoided. 6.3.1 Containment - Methods and Materials Abs on the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 7. Handling and Storage Vear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol or furmes will be generated. Avoid contact with skin, eyes and clar for precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Made in accordance with good industrial hy	5.1.2 Unsuitable Fire Extinguis					
6. Accidental Release Measures 8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spil/leak. 8.2.1 Environmental Precautions Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterwas sewer systems. Discharge into the environment must be avoided. 8.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 8.4.1 Referenced SDS Sections Prevent further personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate what substrate and sparks forpen flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate what state and spark proof equipment when handling. 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical furme hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate what sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate what sentilation, especially if dust, aerosol or furmes will be generated. Avoid contact with skin, eyes and cle For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where p	5.2.1 Special Hazards					
8.1.1 Personal Precautions Use personal protective equipment. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Av breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 8.2.1 Environmental Precautions Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterwa sewer systems. Discharge into the environment must be avoided. 8.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 8.4.1 Referenced SDS Sections 7. Handling and Storage Personal Precautions Vear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequa exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clo For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Ar.13 General Occupational Hygiene Where possible, use anti static and spark proof equipment when handling. Handle in accordance with good industrial hygiene and safety practice. Wash hands before re-use. Conditions for Safe Storage and Incompatabilities	5.3.1 Advice for Fire Fighters		As in any fire, wear self-contained breathing apparatus and full protective gear.			
5.2.1 Environmental Precautions breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak. 6.2.1 Environmental Precautions Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterwasewer systems. Discharge into the environment must be avoided. 6.3.1 Containment - Methods and Materials Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 6.4.1 Referenced SDS Sections 7. Handling and Storage <i>Personal Precautions</i> Vear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequae exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clop For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	6. Accidental Releas	e Measure	es			
sewer systems. Discharge into the environment must be avoided. Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring in airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. Al. 1 Referenced SDS Sections 7. Handling and Storage Personal Precautions 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequa exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clor For precautions see section 2.2. Where possible, use anti static and spark proof equipment when handling. Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	6.1.1 Personal Precautions			0		
airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations. 5.4.1 Referenced SDS Sections 7. Handling and Storage Personal Precautions 7.1.1 Safe Handling 7.1.1 Safe Handling 7.1.2 Protection Against Explosion and Fire 7.1.3 General Occupational Hygiene 7.1.3 General Occupational Hygiene 7.1.3 General Occupational Hygiene 7.1.5 Safe Storage and Incompatabilities	6.2.1 Environmental Precautio	ns	Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterways			
7. Handling and Storage Personal Precautions 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequa exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and cloper precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	6.3.1 Containment - Methods a	nd Materials	Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring into a airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.			
Personal Precautions 7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate shaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and close For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do redrink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	δ.4.1 Referenced SDS Section	S				
7.1.1 Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequa exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clop For precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	7. Handling and Stor	age				
sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequal exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and cloped for precautions see section 2.2. 7.1.2 Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling. 7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	Personal Precautions	6				
7.1.3 General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do r drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Conditions for Safe Storage and Incompatabilities	7.1.1 Safe Handling		Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat/ sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and cloth For precautions see section 2.2.			
drink or smoke when using this product. Remove and wash contaminated clothing before re-use.	7.1.2 Protection Against Explo	sion and Fire	Where possible, use anti static and spar	k proof equipment when handling.		
	7.1.3 General Occupational Hy	giene	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not			
	Conditions for Safe S	storage and	d Incompatabilities			
7.2.1 Managing Storage Risks Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.	7.2.1 Managing Storage Risks		Keep container tightly closed and uprice	t. Store in a cool, drv and well-ventilat	ed place.	

1.2.1 Wallaging Storage Risks	Reep container lightly closed and upright. Store in a cool, dry and weil-ventilated place.
7.2.2 Storage Controls	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.3 Maintaining Integrity	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.4 Other Advice	No other specific advice available.
7.3.1 Specific End Use(s)	No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

8.1.1 Control Parameters	
8.2.1 Engineering Measures	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Ensure Hexafluorine washing solution is close to workstation. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
8.2.2 Face Protection	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure Hexafluorine eye wash is to hand
8.2.3 Hand Protection	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
8.2.4 Skin Protection	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. Ensure Hexafluorine washing solution is to hand. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
8.2.5 Respiratory Protection	Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.
8.2.6 Hygiene Protection	Ensure hair or skin particles cannot enter the chemical container.
8.2.7 Environment Exposure Controls	Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

9.1.1 State	Solid
9.1.2 Appearance	Solid
9.1.3 Odour	No data available.
9.1.4 Odour Threshold	No data available.
9.1.5 pH	No data available.
9.1.6 Melting Point / Freezing Point	No data available.
9.1.7 Initial Boiling Point	No data available.
9.1.8 Boiling Range	No data available.
9.1.9 Flash Point	No data available.
9.1.10 Evaporation Rate	No data available.
9.1.11 Flammability	No data available.
9.1.12 Upper / Lower Flammability or Explosion Limits	No data available.
9.1.13 Vapour Pressure	No data available.
9.1.14 Vapour Density	No data available.
9.1.15 Relative Density	No data available.
9.1.16 Solubility	
9.1.17 Partition Coefficient	No data available.
9.1.18 Auto Ignition Temperature	No data available.
9.1.19 Decomposition Temperature	No data available.
9.1.20 Viscosity	No data available.
9.1.21 Explosive Properties	No data available.
9.1.22 Oxidising Properties	No data available.
9.2.1 Other information	No additional information available.

10. Stability and Reactivity

10.1.1 Reactivity	No known reactivity, based on information available.
10.2.1 Stability	Stable under recommended storage conditions.
10.3.1 Possibility of Hazardous Reactions	None under normal storage conditions.
10.4.1 Conditions To Avoid	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
10.5.1 Incompatible Materials	Strong oxidising agents.
10.6.1 Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

- 11.1.1 Acute Toxicity
- 11.1.2 Skin Corrosion / Irritation
- 11.1.3 Serious Eye Damage / Irritation
- 11.1.4 Respiratory or Skin Sensitisation

No Toxicology data available for this product. No Toxicology data available for this product. No Toxicology data available for this product. No Toxicology data available for this product.

12. Ecological Information

12.1.1 Toxicity	No Ecological data available for this product.
12.2.1 Persistence and Degradability	No Ecological data available for this product.
12.3.1 Bio-Accumulative Potential	No Ecological data available for this product.
12.4.1 Mobility in Soil	No Ecological data available for this product.
12.5.1 Results of PBT and vPvB assessment	No Ecological data available for this product.
12.7.1 Endocrine Disrupting Properties	No Ecological data available for this product.
12.6.1 Other Adverse Effects	No Ecological data available for this product.

13. Disposal Considerations

13.1.1 Disposal Operations

13.1.2 Disposal of Packaging

14. Transport Information

IATA UN Number		ADR UN Number		IMDG UN Number	
14.1.2 IATA Proper Shipping Name	(9,10-Dioxo-9,10- dihydroanthracene-2- carboxylic acid)	ADR Proper Shipping Name	Non Hazardous For Transport (9,10- Dioxo-9,10- dihydroanthracene-2- carboxylic acid)	IMDG Proper Shipping Name	(9,10-Dioxo-9,10- dihydroanthracene-2- carboxylic acid)
IATA Packing Group		ADR Packing Group		IMDG Packing Group	
14.1.4 IATA Hazard Class		ADR Hazard Class		IMDG Hazard Class	
14.1.5 IATA Sub Class		ADR Sub Class		IMDG Sub Class	

Ensure product is disposed of by licensed waste carriers.

recyclable if not contaminated.

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be

15. Regulatory Information

15.1.1 Regulatory Information As far as Fluorochem is aware, there are no further regulations controlling this product.

Regulation 2020/878.

15.2.1 Chemical Safety No Chemical Safety Assessment is available for this product. Assessment

16. Other Information

16.1.2 Information Not Covered in Other Sections	ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service
Revision	1
Date Modified	Aug 10, 2023 12:34:00 PM
16.1.1 Disclaimer	The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU