

Printing date 08/10/2023

Revision date 08/10/2023

Page 1/11

## **1** Identification

- · Product identifier
- · Trade name: Flonicamid-15N,18O
- <sup>.</sup> Synonym
- Article number: 39578
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard	

Printing date 08/10/2023

Revision date 08/10/2023

## Trade name: Flonicamid-15N,18O

<ul> <li>Label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms <ul> <li>Applied Control (Control (Control</li></ul></li></ul>		(Contd. from page 1)
• OHS label elements         The product is classified and labeled according to the Globally Harmonized System (GHS).         • Hazard pictograms         • Wight State         • Open State	· Label elements	5
The product is classified and labeled according to the Globally Harmonized System (GHS).         Hard pictograms         Yein Stand pictograms         Yein Stand pictograms         Yein Stand Pictograms         Hard Pictograms         Hard Pictograms         Hard Pictograms         Hard Statements         The Statements         Yein Statements         Part Control Statements		
Hazird pictograms         Very Pictor 2       GH302         Gipal word Danger         Braznd statements         Hazird statements         Hazird of the state statements         Pictor 2       Ground/bond container and receiving equipment.         P210       Kee shares to the central nervous system and the visual organs.         P240       Ground/bond container and receiving equipment.         P241       Use only non-sparking tools.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P244       Use only non-sparking tools.         P245       Do not breathe dust/fum@gas/mist/vapors/spray.         P246       Wash thoroughly after handling.         P247       Ly envilopment weasures against static discharge.         P248       Wash thoroughly after handling.         P249       Use only outdoors or in a well-ventilating/lighting/equipment.         P240       Do not eat, drink or smoke when using this product.         P241       Specific treatment (see on this late).         P301+P301       If swallowed: Immediately call ontaminated clothing. Rinse skin with water/shower.         P304+P3931+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P		
<image/> Viscous Service         Viscous Service           Provide Service         Provide Service           Provide Servide Service         Provide Service     <		
<ul> <li>Signal word Danger</li> <li>Hzard -determining components of labeling: Methanol</li> <li>Hard Statements</li> <li>Highly flammable liquid and vapor.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed to the central nervous system and the visual organs.</li> <li>H401 Use end on thatine rand receiving equipment.</li> <li>H314 Use only non-sparking toxis.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 H335 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with metrishower.</li> <li>H314 H345 Take off immediately call a poison center/doctor.</li> <li>H314 H345 Take off immediately all on Disposed contralinated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thraninated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H3</li></ul>	۰۰۰ <b>۲</b>	
<ul> <li>Signal word Danger</li> <li>Hzard -determining components of labeling: Methanol</li> <li>Hard Statements</li> <li>Highly flammable liquid and vapor.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed to the central nervous system and the visual organs.</li> <li>H401 Use end on thatine rand receiving equipment.</li> <li>H314 Use only non-sparking toxis.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 H335 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with metrishower.</li> <li>H314 H345 Take off immediately call a poison center/doctor.</li> <li>H314 H345 Take off immediately all on Disposed contralinated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thraninated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H3</li></ul>		
<ul> <li>Signal word Danger</li> <li>Hzard -determining components of labeling: Methanol</li> <li>Hard Statements</li> <li>Highly flammable liquid and vapor.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed, in contact with skin or fi inhaled.</li> <li>H301+H311+H331 Toxic if swallowed to the central nervous system and the visual organs.</li> <li>H401 Use end on thatine rand receiving equipment.</li> <li>H314 Use only non-sparking toxis.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 Use only outdoors or in a well-ventilated rate.</li> <li>H314 H335 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with metrishower.</li> <li>H314 H345 Take off immediately call a poison center/doctor.</li> <li>H314 H345 Take off immediately all on Disposed contralinated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thraninated clothing and wash it before reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H345 Take off immediately all on thinalinet dictor reuse.</li> <li>H314 H3</li></ul>		
9 Signal word Danger         9 Hazard-determining components of labeling: Methanol         9 Hazard Statements         12 S       Highly flammable liquid and vapor.         13 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         13 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         13 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         14 11+H331 Toxic if swallowed, in contact with skin or if inhaled.         15 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         15 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         15 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         15 11+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         15 12 12 12 12 12 12 12 12 12 12 12 12 12		
Hazard-determining components of labeling: Methanol         Hazard statements         H225       Highly flammable liquid and vapor.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H3331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H3331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, incontact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, incontact with skin or if inhaled.         H311H32       Gaussian and the visual organs.         Precationary statements         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/wentilating/lighting/equipment.         P241       Use only outdoors or in a well-ventilated area.         P260       Do not eat, drink or smake when using this product.         P211       Use only outdoors or in a well-ventilated area.         P300       Rinsemouth.         P301+P301       If exposed: Call a PolSON Cententer oreter/cotor.         P3	GHS02 GHS	06 GHS08
Hazard-determining components of labeling: Methanol         Hazard statements         H225       Highly flammable liquid and vapor.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H3331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H3331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, in contact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, incontact with skin or if inhaled.         H301+H311H331 Toxic If swallowed, incontact with skin or if inhaled.         H311H32       Gaussian and the visual organs.         Precationary statements         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/wentilating/lighting/equipment.         P241       Use only outdoors or in a well-ventilated area.         P260       Do not eat, drink or smake when using this product.         P211       Use only outdoors or in a well-ventilated area.         P300       Rinsemouth.         P301+P301       If exposed: Call a PolSON Cententer oreter/cotor.         P3		
Methanol         Hazard statements         H225       Highly flammable liquid and vapor.         H301+H311+H331       Toxic if swallowed, in contact with skin or if inhaled.         H370       Causes damage to the central nervous system and the visual organs.         Precautionary statements       P210         Feeducionary statements       Feeducionary measures against static discharge.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately all a poison center/doctor.         P321       Specific treatment (see on this label).         P30       Rinsee mouth.         P30+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician. <td>•</td> <td></td>	•	
Hazid statements         H225       Highly flammable liquid and vapor.         H301+H311+H331       Toxic if swallowed, in contact with skin or if inhaled.         H370       Causes damage to the central nervous system and the visual organs.         Precautionary statements       Precautionary statements         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P271       Use only outdoors or in a well-ventilated area.         P280       Weaer protective gloves/protective clothing/see protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P301+P310       If swallowed and teap call a poison center/doctor.         P301+P310       If swallowed and comment (see on this label).         P303       Rinse mouth.         P304+P301       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P370+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P370+P325       Store in a well-v		ining components of labeling:
Highly Hammable liquid and vapor.         H301+H4311+H331 Toxic if swallowed, in contact with skin or if inhaled.         H370       Causes damage to the central nervous system and the visual organs.         Precautionary statements         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breatt dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only out/coors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301 H? Swallowed: Immediately call a poison center/doctor.         P301 H? Swallowed: In skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P361 HP361 H? Swallowed and vapor.         P304+P361 H? Swallowed in a velicover inductor if you feel unwell.         P312       Call a poison center/doctor if you feel unwell.         P314+P361 H? Swallowed in a well-ventilated clothing and wash it before reuse.         P370+P378       In case of fire: Use CO2, powder or water spray		
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.         H370       Causes damage to the central nervous system and the visual organs.         Precautionary statements       P210         Keep away from heat/sparks/open flames/hot surfaces No smoking.         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventiliating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not eat, dink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: immediately call a poison center/doctor.         P321       Specific treatment (see on this label).         P300       Rinse mouth.         P301+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician. <tr< td=""><td></td><td></td></tr<>		
H370       Causes damage to the central nervous system and the visual organs.         Precautionary statements         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathed dust/tume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not act, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P321       Specific treatment (see on this label).         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P312       Call a poison center/doctor if you feel unwell.         P314       IF sexposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doctor if you feel unwell.         P314+P336       In case of fire: Use CO2, powder or water spray to extinguish. <tr< td=""><td></td><td></td></tr<>		
Precautionary statements         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective cloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P321       Specific treatment (see on this label).         P303       Rinse mouth.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doct if you feel unwell.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P370+P378       In case of fire: Use CO2, powder or water spray to extinguish.         P403+P235       <		
P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventilitaling/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P330       Rinse mouth.         P301       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P304+P341       IF exposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doctor if you feel unwell.         P361+P354       Take off immediately all contaminated clothing and wash it before reuse.         P370+P375       In case off ire: Use CO2, powder or water spray to extinguish.         P403+P235		
P240       Ground/bond container and receiving equipment.         P241       Use explosion-proof electrical/ventilating/lighting/equipment.         P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breath dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P301       P305       Rinse mouth.         P303+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P304+P340       IF INHALED: Remove person to doctor/physician.         P301+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P301+P338       In case of fire: Use CO2, powder or water spray to extinguish.         P403+P233       Store in a well-ventilated place. Keep container tightly closed.         P403+P235       Store in a well-ventilated place. Keep container tightly closed.	•	
<ul> <li>P241 Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>P264 Wash thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P301+P310 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 If exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P307+P313 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P403 P235 Store in a well-ventilated place. Keep cool.</li> <li>P403 P235 Store in a well-ventilated place. Keep cool.</li> <li>P403 P235 P364 P360 P376</li> <li>P403 P235 Hart as a mage protection of the protection of</li></ul>	-	
P242       Use only non-sparking tools.         P243       Take precautionary measures against static discharge.         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not breat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P331       P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doctor if you feel unwell.         P361+P364       Take off immediately all contaminated clothing and wash it before reuse.         P370+P378       In case of fire: Use CO2, powder or water spray to extinguish.         P403+P235       Store in a wel		
<ul> <li>P243 Take precautionary measures against static discharge.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>P264 Wash thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P301 F310 P301 P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P301+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Wear precision system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Wear precision are spray to exting a mathematical precision and the spray and the</li></ul>		
P260       Do not breathe dust/fume/gas/mist/vapors/spray.         P264       Wash thoroughly after handling.         P270       Do not et, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P321       Specific treatment (see on this label).         P303       Rinse mouth.         P303+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doctor if you feel unwell.         P361+P364       Take off immediately all contaminated clothing and wash it before reuse.         P370+P378       In case of fire: Use CO2, powder or water spray to extinguish.         P403+P235       Store in a well-ventilated place. Keep cool.         P403       P25       Store in a well-ventilated place. Keep cool.         P403       P36       Dispose of contents/container in accordance with local/regional/national/international regulations.         Classification system:       NFPA ratings (s		
P264       Wash thoroughly after handling.         P270       Do not eat, drink or smoke when using this product.         P271       Use only outdoors or in a well-ventilated area.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P301+P310       If swallowed: Immediately call a poison center/doctor.         P321       Specific treatment (see on this label).         P330       Rinse mouth.         P303+P361+P353       If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P307+P311       IF exposed: Call a POISON CENTER or doctor/physician.         P312       Call a poison center/doctor if you feel unwell.         P361+P364       Take off immediately all contaminated clothing and wash it before reuse.         P370+P378       In case of fire: Use CO2, powder or water spray to extinguish.         P403+P235       Store in a well-ventilated place. Keep cool.         P403+P235       Store in a well-ventilated place. Keep cool.         P403+P235       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         Classification system:       NFPA ratings (scale 0 - 4)         If Realth =		
<ul> <li>P270 Do not eat, dřink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P321 Specific treatment (see on this label).</li> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED. Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Wealth = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>WEALTH P Health = *2 Fire = 3 Reactivity = 0</li> <li>CMIS-ratings (scale 0 - 4)</li> </ul>		
<ul> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P311 Specific treatment (see on this label).</li> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Imating (scale 0 - 4)</li> <li>Imatin</li></ul>		
<ul> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P321 Specific treatment (see on this label).</li> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>MEALTH 2</li> <li>Health = 2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>MEALTH 2</li> <li>Health = *2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> </ul>		
<ul> <li>P301+P310 If swallowed: Immediately call a poison center/doctor.</li> <li>P321 Specific treatment (see on this label).</li> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>MEALTH 2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> <li>Health = *2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> <li>Cont. or page 3</li> </ul>		
<ul> <li>P321 Specific treatment (see on this label).</li> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>MEALTH 2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> <li>Health = *2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> </ul>		
<ul> <li>P330 Rinse mouth.</li> <li>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH P INE = 3 Reactivity = 0</li> <li>Classification system = 0</li> <li>Container spray for a store of the store and the store a</li></ul>		
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P307+P311 IF exposed: Call a POISON CENTER or doctor/physician. P312 Call a poison center/doctor if you feel unwell. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P233 Store in a well-ventilated place. Keep cond. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH P Health = *2 Fire = 3 Reactivity = 0 Cont.or page 3)		
water/shower. P304+P340 P307+P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P307+P311 P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = *2 Fire = 3 Reactivity = 0 Kertion Page 3 Reactivity = 0		
<ul> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>Health = *2 Fire = 3 Reactivity = 0</li> <li>Health = *2 Fire = 3 Reactivity = 0</li> </ul>	P303+P301+P3	
<ul> <li>P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.</li> <li>P312 Call a poison center/doctor if you feel unwell.</li> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>Health = *2 Fire = 3 Reactivity = 0</li> <li>Classification system = 3 Reactivity = 0</li> </ul>	D204+D240	
P312Call a poison center/doctor if you feel unwell.P361+P364Take off immediately all contaminated clothing and wash it before reuse.P370+P378In case of fire: Use CO2, powder or water spray to extinguish.P403+P233Store in a well-ventilated place. Keep container tightly closed.P403+P235Store in a well-ventilated place. Keep cool.P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international regulations.Classification system:NFPA ratings (scale 0 - 4)Vore Fire = 3 Reactivity = 0HMIS-ratings (scale 0 - 4)Health = *2 Fire = 3 Reactivity = 0Health = *2 Fire = 3 Reactivity = 0House and the start of the start		
<ul> <li>P361+P364 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store locked up.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>Health = *2 Fire = 3 Reactivity = 0</li> <li>Contd. on page 3</li> </ul>		
P370+P378In case of fire: Use CO2, powder or water spray to extinguish.P403+P233Store in a well-ventilated place. Keep container tightly closed.P403+P235Store in a well-ventilated place. Keep cool.P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international regulations.• Classification system:• NFPA ratings (scale 0 - 4)		
<ul> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li> Health = 2 Fire = 3 Reactivity = 0 </li> <li>HMIS-ratings (scale 0 - 4)</li> <li>Health = *2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> <li>Health = *2</li> <li>Fire = 3</li> <li>Reactivity = 0</li> </ul> (Contd. on page 3)		
<ul> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH 2 FIRE 3 REACTIVITY FIRE 3 Reactivity = 0</li> </ul>		
P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international regulations.Classification system:NFPA ratings (scale 0 - 4) $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ Health = 2 Fire = 3 Reactivity = 0HMIS-ratings (scale 0 - 4)Health = 2 Fire = 3 Reactivity = 0HEALTH $\frac{2}{2}$ HEALTH $\frac{2}{2}$ FIRE $\frac{3}{2}$ Reactivity = 0Reactivity = 0Contd. on page 3)		
<ul> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2 Fire = 3 Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH 2 FIRE 3 Reactivity 0 Health = *2 Fire = 3 Reactivity = 0</li> </ul>		
regulations. • Classification system: • NFPA ratings (scale 0 - 4) 4 4 4 2 2 0 Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH 2 FIRE 3 REACTIVITY 0 Health = *2 Fire = 3 Reactivity = 0 Health = *2 Fire = 3 Reactivity = 0 (Contd. on page 3)		
• Classification system: • NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH $\begin{array}{c} 2\\ FIRE \end{array}$ Health = *2 FIRE 3 REACTIVITY $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	1 001	
• NFPA ratings (scale 0 - 4) Health = 2 Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH $\begin{array}{c} 2\\ FIRE \end{array}$ Health = *2 FIRE 3 REACTIVITY $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$		
Health = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH $\begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $		
Fire = 3 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH <sup>12</sup> FIRE 3 REACTIVITY 0 Reactivity = 0 (Contd. on page 3)		
<ul> <li>Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH <sup>2</sup>/<sub>2</sub> FIRE <sup>3</sup>/<sub>3</sub> REACTIVITY <sup>1</sup>/<sub>0</sub></li> <li>Health = *2 Fire = 3 Reactivity = 0</li> <li>(Contd. on page 3)</li> </ul>	He	ealth = 2
HMIS-ratings (scale 0 - 4)         HEALTH       Price         FIRE       Fire = 3         REACTIVITY       Reactivity = 0         (Contd. on page 3)	Fir	re = 3
HMIS-ratings (scale 0 - 4)         HEALTH       Price         FIRE       Fire = 3         REACTIVITY       Reactivity = 0         (Contd. on page 3)		eactivity = 0
HEALTH       12         FIRE       3       Fire = 3         REACTIVITY       0       Reactivity = 0         (Contd. on page 3)		
FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 (Contd. on page 3)		
REACTIVITY  Reactivity = 0 (Contd. on page 3)		
(Contd. on page 3)		
(Contd. on page 3)	REACTIVITY 0 R	ceactivity = 0

Printing date 08/10/2023

Revision date 08/10/2023

(Contd. from page 2)

99.987%

0.013%

#### Trade name: Flonicamid-15N,18O

- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **3 Composition/information on ingredients**

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:
- CAS: 67-56-1 Methanol
- RTECS: PC1400000
- Other ingredients
- 2483830-60-8 Flonicamid-15N,18O

## **4 First-aid measures**

#### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

US

Printing date 08/10/2023

Revision date 08/10/2023

#### Trade name: Flonicamid-15N,18O

(C	ontd. from page 3)
Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawc	lust)
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
67-56-1 Methanol	530 ppm
· PAC-2:	
67-56-1 Methanol	2,100 ppm
· PAC-3:	
67-56-1 Methanol	7200* ppm

## 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

Components with limit values that require monitoring at the workplace:

#### 67-56-1 Methanol

- PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm
- REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm
  - Long-term value: 260 mg/m³, 200 ppm Skin

- (Contd. on page 5)
  - US

Printing date 08/10/2023

Revision date 08/10/2023

Trade name: Flonicamid-15N,18O

	(Contd. from page 4
	Short-term value: 250 ppm _ong-term value: 200 ppm
	Skin; BEI
	lients with biological limit values:
-	1 Methanol
BEI 1	5 mg/L
N	ledium: urine
	ime: end of shift
	arameter: Methanol (background, nonspecific)
Additi	onal information: The lists that were valid during the creation were used as basis.
Expos	sure controls
Perso	nal protective equipment:
	al protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work. protective clothing separately.
	contact with the eyes and skin.
	ning equipment:
	e of brief exposure or low pollution use respiratory filter device. In case of intensive or long
	ure use respiratory protective device that is independent of circulating air.
Prote	ction of hands:
n în	
1112	Protective gloves
The al	ove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	o missing tests no recommendation to the glove material can be given for the product/ th
	ation/ the chemical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and th
degrad	
	i <b>al of gloves</b> election of the suitable gloves does not only depend on the material, but also on further marks o
	$\gamma$ and varies from manufacturer to manufacturer. As the product is a preparation of sever
	ances, the resistance of the glove material can not be calculated in advance and has therefore
	ecked prior to the application.
	ration time of glove material
	kact break through time has to be found out by the manufacturer of the protective gloves and ha
	bbserved.
. Еуе р	rotection:
	Tightly sealed goggles

(Contd. on page 6)

Printing date 08/10/2023

Revision date 08/10/2023

## Trade name: Flonicamid-15N,18O

(Contd. from page 5)

	· Information on basic physical and chemical properties		
General Information			
· Appearance:			
Form: Color:	Liquid Colorless		
· Odor:	Alcohol-like		
· Structural Formula	C9H6F3N2[15N][18O]		
· Molecular Weight	232.2 g/mol		
· Odor threshold:	Not determined.		
· Formulation	A solution in methanol		
· pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	-98 °C (-144.4 °F)		
Boiling point/Boiling range:	64.7 °C (148.5 °F)		
· Flash point:	9.7 °C (49.5 °F)		
· Flammability (solid, gaseous):	Highly flammable.		
· Auto igniting:	455 °C (851 °F)		
· Decomposition temperature:	Not determined.		
· Ignition temperature:	Product is not selfigniting.		
· Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.		
· Explosion limits:			
Lower:	5.5 Vol %		
Upper:	44 Vol %		
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)		
<sup>.</sup> Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)		
Relative density	Not determined.		
Vapor density	Not determined.		
· Evaporation rate	Not determined.		
• Solubility in / Miscibility with	4000//		
Water at 20 °C (68 °F):	1000 g/l		
· Partition coefficient (n-octanol/wate	er): Not determined.		
· Viscosity:			
Dynamic: Kinematic:	Not determined. Not determined.		
Solvent content:	100.0.0/		
Organic solvents: VOC content:	100.0 % 99.99 %		
	99.99 % 999.9 g/l / 8.34 lb/gal		
Solids content:	0.0 %		

Printing date 08/10/2023

Revision date 08/10/2023

Trade name: Flonicamid-15N,18O

(Contd. from page 6)

• Other information

No further relevant information available.

## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)				
Oral	LD50	100 mg/kg (rat)		
Dermal	LD50	100 mg/kg (rat) 300 mg/kg (rabbit)		
Inhalative	LC50/4 h	3.1 mg/l (rat)		

## 67-56-1 Methanol

Г

Oral	LD50	100.1 mg/kg (rat) (Expert judgment)
		Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Inhalative	LC50/4 h	<ul> <li>3.1 mg/l (rat)</li> <li>(Expert judgment)</li> <li>Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)</li> <li>Symptoms: Irritation symptoms in the respiratory tract.</li> </ul>

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

(Contd. on page 8)

Printing date 08/10/2023

Revision date 08/10/2023

Trade name: Flonicamid-15N,18O

(Contd. from page 7)

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

# 14 Transport information • UN-Number • DOT, IMDG, IATA UN1230 • UN proper shipping name • DOT, IATA Methanol solution • IMDG METHANOL solution

Printing date 08/10/2023

Revision date 08/10/2023

Trade name: Flonicamid-15N,18O

	(Contd. from page 8
· Transport hazard class(es)	
·DOT	
RAMABE LODO	
· Class · Label	3 Flammable liquids 3, 6.1
·IMDG	
· Class · Label	3 Flammable liquids 3/6.1
·IATA	
· Class	3 Flammable liquids
Label	3 (6.1)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids : 336 F-E,S-D
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
·IMDG	
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Codo: E2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.
	(Contd. on page 10

(Contd. on page 10)

US

Printing date 08/10/2023

Revision date 08/10/2023

Trade name: Flonicamid-15N,18O

	(Contd. from page	
	Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.	
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 3 (6.1), II	

## **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
67-56-1 Methanol	ACTIVE
· Hazardous Air Pollutants	
67-56-1 Methanol	
· Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable. Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

(Contd. on page 11)

US

Printing date 08/10/2023

Revision date 08/10/2023

## Trade name: Flonicamid-15N,18O

	(Contd. from page 10)
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 08/10/2023	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Cate	gory 1
	US