Printing date 07/18/2024

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| Product identifier  |  |
|---|--|
| Trade name: Rhodanine Indicator   |  |
| in Acetone  |  |
| Article number: CY246   |  |
| Details of the supplier of the safety data sheet  |  |
| Manufacturer/Supplier:  |  |
| Aqua Solutions, Inc.  |  |
| 6913 Highway 225  | SOLUTIONS  |
| DEER PARK, TX 77536<br>USA  |  |
| 800-256-2586  |  |
| Information department:   |  |
| Technical Coordinator   |  |
| Sherman Nelson shermann@aquasolutions.org   |  |
| <i>Emergency telephone number:</i><br><i>Chemtrec: 800-424-9300</i>   |  |
| <i>Canutec:</i> 800-424-9500<br><i>Canutec:</i> 613-996-6666  |  |
|   |  |
| GHS02 Flame   |  |
| Flammable Liquids 2<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements   |  |
| GHS02 Flame<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements   | H319 Causes serious eye irritation.  |
| <i>GHS02 Flame</i><br><i>Flammable Liquids 2</i><br><i>GHS07</i><br><i>Eye Irritation 2A</i><br><i>Specific Target Organ Toxicity - Single Exposur</i><br><i>Label elements</i><br><i>GHS label elements The product is classified an</i>   | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| GHS02 Flame<br>Flammable Liquids 2  | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| GHS02 Flame         Flammable Liquids 2         Image: Constraint of the state | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| GHS02 Flame         Flammable Liquids 2         Image: Constraint of the second structure         Eye Irritation 2A         Specific Target Organ Toxicity - Single Exposure         Label elements         GHS02         GHS03         Image: GHS02         Image: GHS02         GHS03         Signal word Danger         Hazard-determining components of labeling: Acetone   | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| Flammable Liquids 2<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements<br>GHS label elements The product is classified and<br>Hazard pictograms<br>GHS02 GHS07<br>Signal word Danger<br>Hazard-determining components of labeling:<br>Acetone<br>Hazard statements   | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| Flammable Liquids 2<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements<br>GHS label elements The product is classified an<br>Hazard pictograms<br>GHS02 GHS07<br>Signal word Danger<br>Hazard-determining components of labeling:<br>Acetone<br>Hazard statements<br>Highly flammable liquid and vapor.  | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| Flammable Liquids 2<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements<br>GHS label elements The product is classified and<br>Hazard pictograms<br>GHS02 GHS07<br>Signal word Danger<br>Hazard-determining components of labeling:<br>Acetone<br>Hazard statements   | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.  |
| Flammable Liquids 2<br>Flammable Liquids 2<br>GHS07<br>Eye Irritation 2A<br>Specific Target Organ Toxicity - Single Exposur<br>Label elements<br>GHS label elements The product is classified an<br>Hazard pictograms<br>GHS02 GHS07<br>Signal word Danger<br>Hazard-determining components of labeling:<br>Acetone<br>Hazard statements<br>Highly flammable liquid and vapor.<br>Causes serious eye irritation.  | H319 Causes serious eye irritation.<br>re 3 H336 May cause drowsiness or dizziness.<br>nd labeled according to the Globally Harmonized System (GHS |

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# Trade name: Rhodanine Indicator

in Acetone

| Use explosion-proof electrical/ventilating/lighting/equipment.       (Contd. of page 1         Use only non-sparking tools.       Take precautionary measures against static discharge.         Avoid breathing dust/fume/gas/mist/vapors/pray       Wash throughly after handling.         Use only outdoors or in a well-ventilated area.       Wear protective gloves/protective (alcohing/ve protection.         If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.       If NHALED: Remove person to fresh air and keep confortable for breathing.         If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing.       Call a poison center/doctor if you feel unvell.         If eye irritation persists: Get medical advice/attention.       In case of fire: Use CO2, powder or vater spray to extinguish.         Store in a well-ventilated place. Keep cool.       Store in a well-ventilated place. Keep cool.         Store in a well-ventilated place. Keep cool.       Store in a well-ventilated place. Keep cool.         Store in a well-ventilated place. Keep cool.       Store in a well-ventilated place. Keep cool.         Store in a well-ventilated place.       Fire = 3         Reactivity = 0       Fire = 3         Price = 3       Fire = 3         Reactivity = 0       Other hazards         Other hazards       Store in applicable.         'PrB: Not applicable.       Prb  |  |   |
|--|--|---|
| Use explosion-proof electrical/ventilating/lighting/equipment.<br>Use only non-sparking tools.<br>Take precautionary measures against static discharge.<br>Avoid breathing dust/fume/gas/mist/vapors/spray<br>Weash thoroughly digt handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (to hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/atention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br><b>Health = 2</b><br>Fire = 3<br>Reactivity = 0<br>• Uher hazards<br>Reactivity = 0<br>• Other hazards<br>Reactivity = 0<br>• Other hazards<br><b>Results of BT and vPVB assessment</b><br>• PFI: Not applicable.<br>• yPH: Not applicable.<br>• yPH: Not applicable.<br>• yPH: Not applicable.<br>• yPH: Not applicable.<br>• prevision if Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  | (Contd. of page 1)                      |
| Use only non-sparking tools.<br>Take precautionary measures against static discharge.<br>Avoid breating dustifume/gas/mist/vapors/spray<br>Wash thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>If If IP NHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>Classification system:<br>NFPA ratings (scale 0 - 4)<br>Mealth = 2<br>Fire = 3<br>Reactivity = 0<br>HMIS-ratings (scale 0 - 4)<br>MEALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>HMIS-ratings (scale 0 - 4)<br>MEALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>Other hazards<br>Reactivity = 0<br>Other hazards<br>Results of PBT and vPvB assessment<br>PBT: Not applicable.<br>*PWF: Not applicable.<br>*PWF: Not applicable.<br>*PWF: Not applicable.<br>*PWF: Not applicable.<br>*PWF: Not applicable.<br>*PWF: Mater applicable. | Use explosion-proof electrical/ventilating/lighting/equipment. | (************************************** |
| Take precautionary measures against static discharge.<br>Avoid breathing dust/fume/gas/mist/apors/spray<br>Wash thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br><b>Health = 2</b><br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br><b>Health = 2</b><br>Fire = 3<br>Reactivity = 0<br>• HMIS-rating (cale 0 - 4)<br><b>HEALTH</b> If Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other haczards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• PFW: Not applicable.<br>• PFW: Not applicable.<br>• PFW: Not applicable.   |  |   |
| Avoid breathing dust/fume/gas/mist/vapors/spray<br>Wash thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Kinse skin with water/shower.<br>If INHALED: Remove person to fresh air and been comfortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br><b>Health = 2</b><br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br><b>HEALTH 2</b><br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• PVB: Not applicable.<br>• PVB: Not applicable.<br>• PVB: Not applicable.<br>• Chemical characterization on ingredients<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.  |  |   |
| Wash thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>If INHALED: Remove person to fresh air and keep confortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store in a well-ventilated place. Keep cool.<br>Meating (scale 0 - 4)<br><b>Health</b> = 2<br>Fire = 3<br>Reactivity = 0<br><b>Other hazards</b><br><b>Reactivity</b> = 0<br><b>Other hazards</b><br><b>Reactivity</b> = 0<br><b>Other hazards</b><br><b>Reactivity</b> = 0<br><b>Store in a well-ventilated</b><br><b>Reactivity</b> = 0<br><b>Store in a plicable</b> .<br><b>BT</b> : Not applicable.<br><b>BT</b> : Not applicable.<br><b>BT</b> : Not applicable.<br><b>Store in a plicable</b> .<br><b>Store in a material characterization: Mixtures</b><br><b>Description:</b> Mixture of the substances listed below with nonhazardous additions.<br><b>Dagerous components:</b>                 |  |   |
| Use only outdoors or in a well-ventilated area.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder ow water spray to exinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store in a well-ventilated place. Keep cool.<br>Store in a well-ventilated place. Keep cool.<br>Store in contents/container in accordance with local/regional/national/international regulations.<br>Classification system:<br>• NFPA ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other hazards<br>• Reasults of PBT and vPvB assessment<br>PBT: Not applicable.<br><b>3 Composition/information on ingredients</b><br>• VFPS: Not applicable.<br><b>3 Composition/information on ingredients</b><br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.   |  |   |
| Wear protective gloves/protective clothing/eye protection/face protection.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store in a well-ventilated place. Keep cool.<br>Meatth = 2<br>Fire = 3<br>Reactivity = 0<br>· HMIS-ratings (scale 0 - 4)<br>Meatth = 2<br>Fire = 3<br>Reactivity = 0<br>· Other hazards<br>· Results of PBT and vPvB assessment<br>· PBT: Not applicable.<br>· vPvB: Not applicable.<br>· vPvB: Not applicable.<br>· VPvB: Not applicable.<br>· Chemical characterization: Mixtures<br>· Chemical characterization: Mixtures<br>· Description: Mixture of the substances listed below with nonhazardous additions.<br>· Dangerous components:   |  |   |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>#Auth = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>#EALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other hazards<br>• Reasults of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• vPvB: Not applicable.<br>• VPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4) Image: State of the second st   |  | hower                                   |
| If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do<br>Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br># Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br># EALTH 2<br>FIRE 3<br>Reactivity = 0<br>• Other hazards<br>Reactivity = 0<br>• Other hazards<br>• PBT: Not applicable.<br>• PPY: Not applicable.<br>• PPY: Not applicable.<br>• PPY: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| Continue rinsing.<br>Call a poison center/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep cool.<br>Store iocked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>FIRE 2<br>Fire 3<br>Reactivity = 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• yPvB: Not applicable.<br>• VPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.   |  | present and easy to do.                 |
| Call a poison conter/doctor if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store tocked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)  |  | resent and easy to do.                  |
| If eye irritation persists: Get medical advice/attention.<br>In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>• NFPA ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2 Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• yPvB: Not applicable.<br>• yPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.  |  |   |
| In case of fire: Use CO2, powder or water spray to extinguish.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>• Mils-ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• vPvB; Not applicable.<br>• vPvB; Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| Store in a well-ventilated place. Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>• Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>Health = 2<br>Fire = 3<br>REACTIVITY 0<br>Reactivity = 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• yPvB: Not applicable.<br>• VPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| Store in a well-ventilated place. Keep cool.<br>Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>Classification system:<br>NFPA ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>· HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>FIRE 3<br>Reactivity = 0<br>· Other hazards<br>Reactivity = 0<br>· Other hazards<br>· Results of PBT and vPvB assessment<br>· PBT: Not applicable.<br>· vPvB: Not applicable.<br>· vPvB: Not applicable.<br>· Chemical characterization: Mixtures<br>· Description: Mixture of the substances listed below with nonhazardous additions.<br>· Dangerous components:  |  |   |
| Store locked up.<br>Dispose of contents/container in accordance with local/regional/national/international regulations.<br>• Classification system:<br>• NFPA ratings (scale 0 - 4)<br>• Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>FIRE 3<br>Reactivity = 0<br>• Other hazards<br>Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• vPvB: Not applicable.<br>• vPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| Dispose of contents/container in accordance with local/regional/national/international regulations.<br>Classification system:<br>NFPA ratings (scale 0 - 4)<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>· HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>Health = 2<br>Fire = 3<br>Reactivity = 0<br>· Other hazards<br>Reactivity = 0<br>· Other hazards<br>Results of PBT and vPvB assessment<br>· PBT: Not applicable.<br>· vPvB: Not applicable.<br>· Chemical characterization: Mixtures<br>· Description: Mixture of the substances listed below with nonhazardous additions.<br>· Dangerous components:   |  |   |
| <ul> <li>Classification system:</li> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2<br/>Fire = 3<br/>Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH 2<br/>FIRE 3<br/>REACTIVITY 0<br/>Reactivity = 0</li> <li>Other hazards<br/>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>  |  | ulations                                |
| <ul> <li>NFPA ratings (scale 0 - 4)</li> <li>Health = 2<br/>Fire = 3<br/>Reactivity = 0</li> <li>HMIS-ratings (scale 0 - 4)</li> <li>HEALTH 2<br/>Health = 2<br/>Fire = 3<br/>REACTIVITY Reactivity = 0</li> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> 3 Composition/information on ingredients 6 Chemical characterization: Mixtures 9 Description: Mixture of the substances listed below with nonhazardous additions. • Dangerous components:   |  | ululions.                               |
| Health = 2<br>Fire = 3<br>Reactivity = 0<br>• HMIS-ratings (scale 0 - 4)<br>HEALTH 2<br>Health = 2<br>Fire = 3<br>REACTIVITY 0<br>• Other hazards<br>• Results of PBT and vPvB assessment<br>• PBT: Not applicable.<br>• vPvB: Not applicable.<br>• vPvB: Not applicable.<br>• VPvB: Not applicable.<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| FIRE 3<br>Fire = 3<br>REACTIVITY 0<br>Cother hazards<br>· Results of PBT and vPvB assessment<br>· PBT: Not applicable.<br>· vPvB: Not applicable.<br>3<br>Composition/information on ingredients<br>· Chemical characterization: Mixtures<br>· Description: Mixture of the substances listed below with nonhazardous additions.<br>· Dangerous components:   | $2  0  Reactivity = 0$ $\cdot HMIS-ratings (scale 0 - 4)$      |   |
| <ul> <li>Other hazards</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> 3 Composition/information on ingredients • Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions. • Dangerous components:   | FIRE 3 $Fire = 3$  |   |
| <ul> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> 3 Composition/information on ingredients <ul> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>  | <b>REACTIVITY</b> Reactivity = $0$                             |   |
| <ul> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> 3 Composition/information on ingredients <ul> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>  | . Other bazards  |   |
| <ul> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> 3 Composition/information on ingredients • Chemical characterization: Mixtures <ul> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>   |  |   |
| <ul> <li>• vPvB: Not applicable.</li> <li>3 Composition/information on ingredients</li> <li>• Chemical characterization: Mixtures</li> <li>• Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>• Dangerous components:</li> </ul>  |  |   |
| 3 Composition/information on ingredients<br>• Chemical characterization: Mixtures<br>• Description: Mixture of the substances listed below with nonhazardous additions.<br>• Dangerous components:   |  |   |
| <ul> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>   |  |   |
| <ul> <li>Chemical characterization: Mixtures</li> <li>Description: Mixture of the substances listed below with nonhazardous additions.</li> <li>Dangerous components:</li> </ul>   |  |   |
| Description: Mixture of the substances listed below with nonhazardous additions.     Dangerous components:   | 3 Composition/information on ingredients                       |   |
|  |  |   |
|  | · Dangerous components:  |   |
| Clist 67 67 1 1000000 9337576  |  | 99 975%                                 |
|  |  | 77.71310                                |

# • Table of Nonhazardous Ingredients

CAS: 536-17-4 5-(4-Dimethylaminobenzilidine) Rhodanine

# 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.

(Contd. on page 3)

0.025%

(Contd. of page 2)

#### Safety Data Sheet acc. to OSHA HCS

Printing date 07/18/2024

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator in Acetone

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• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: If symptoms persist consult doctor.

• Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  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.* 

- $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. • Environmental precautions: 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, sawdust). 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: CAS: 67-64-1 Acetone 200 ppm · PAC-2: CAS: 67-64-1 Acetone 3200\* ppm · PAC-3:

CAS: 67-64-1 Acetone

#### 7 Handling and storage

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

(Contd. on page 4)

5700\* ppm

US

Printing date 07/18/2024

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator in Acetone

(Contd. of page 3)

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- 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:

#### CAS: 67-64-1 Acetone

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

*REL* Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

- *TLV Short-term value: 500 ppm Long-term value: 250 ppm* 
  - A4, BEI

#### · Ingredients with biological limit values:

CAS: 67-64-1 Acetone

BEI 25 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Acetone (nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- *Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.*
- Wash hands before breaks and at the end of work.
- wash hanas bejore breaks and at the end o
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

Printing date 07/18/2024

Reviewed on 07/18/2024

#### Trade name: Rhodanine Indicator

in Acetone

(Contd. of page 4)

 $\cdot$  Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

# **9** Physical and chemical properties

| · Information on basic physical and c | hemical properties  |
|---------------------------------------|---|
| · General Information                 |   |
| · Appearance:                         |   |
| Form:                                 | Liquid  |
| Color:                                | Yellow  |
| · Odor:                               | Acetone   |
| · Odor threshold:                     | Not determined.   |
| · pH-value:                           | Not determined.   |
| · Change in condition                 |   |
| Melting point/Melting range:          | -94.7 °C (-138.5 °F)  |
| Boiling point/Boiling range:          | 55 °C (131 °F)  |
| · Flash point:                        | -17 °C (1.4 °F)   |
| · Flammability (solid, gaseous):      | Highly flammable.   |
| · Auto igniting:                      | 465 °C (869 °F)   |
| · Decomposition temperature:          | Not determined.   |
| · Ignition temperature:               | Product is not selfigniting.  |
| Danger of explosion:                  | Product is not explosive. However, formation of explosive air/vapor<br>mixtures are possible. |
| · Explosion limits:                   |   |
| Lower:                                | 2.6 Vol %   |
| Upper:                                | 13 Vol %  |
| · Vapor pressure at 20 °C (68 °F):    | 233 hPa (174.8 mm Hg)   |
| · Vapor pressure at 50 °C (122 °F):   | 800 hPa (600 mm Hg)   |
| · Density at 20 °C (68 °F):           | 0.79004 g/cm³ (6.59288 lbs/gal)   |
| · Relative density                    | Not determined.   |
| · Vapor density                       | Not determined.   |
| · Evaporation rate                    | Not determined.   |

*Printing date 07/18/2024* 

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator in Acetone

|                                      |  | (Contd. of page |
|--------------------------------------|--|-----------------|
| · Solubility in / Miscibility with   |  |                 |
| Water:                               | Not miscible or difficult to mix.          |                 |
| · Partition coefficient (n-octanol/w | ater): Not determined.                     |                 |
| · Viscosity:                         |  |                 |
| Dynamic:                             | Not determined.                            |                 |
| Kinematic:                           | Not determined.                            |                 |
| · Solvent content:                   |  |                 |
| Organic solvents:                    | 100.0 %                                    |                 |
| VOC content:                         | 0.00~%                                     |                 |
|                                      | 0.0 g/l / 0.00 lb/gal                      |                 |
| Solids content:                      | 0.0 %                                      |                 |
| · 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:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to

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

#### · 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.

(Contd. on page 7)

*Printing date 07/18/2024* 

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator

in Acetone

(Contd. of page 6)

# **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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

| · UN-Number                  |                                     |
|------------------------------|-------------------------------------|
| · DOT, IMDG, IATA            | UN1993                              |
| · UN proper shipping name    |                                     |
| ·DOT                         | Flammable liquids, n.o.s. (Acetone) |
| · IMDG, IATA                 | FLAMMABLE LIQUID, N.O.S. (Acetone)  |
| · Transport hazard class(es) |                                     |
| ·DOT                         |                                     |
| · Class                      | 3 Flammable liquids                 |
| · Label                      | 3<br>3                              |
| · IMDG, IATA                 |                                     |
| · Class                      | 3 Flammable liquids                 |

*Printing date 07/18/2024* 

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator in Acetone

|   | (Contd. of page                                   |
|---|---|
| · Label                                     | 3   |
| Packing group                               |   |
| DOT, IMDG, IATA                             | II  |
| Environmental hazards:                      |   |
| Marine pollutant:                           | No  |
| Special precautions for user                | Warning: Flammable liquids                        |
| Hazard identification number (Kemler code): | 33  |
| EMS Number:                                 | <i>F-E</i> , <u><i>S-E</i></u>                    |
| Stowage Category                            | B   |
| Transport in bulk according to Annex II of  |   |
| MARPOL73/78 and the IBC Code                | Not applicable.                                   |
| Transport/Additional information:           |   |
| DOT   |   |
| Quantity limitations                        | On passenger aircraft/rail: 5 L                   |
|   | On cargo aircraft only: 60 L                      |
| IMDG  |   |
| Limited quantities (LQ)                     | 1L  |
| Excepted quantities $(\widetilde{E}Q)$      | Code: E2  |
|   | Maximum net quantity per inner packaging: 30 ml   |
|   | Maximum net quantity per outer packaging: 500 ml  |
| UN "Model Regulation":                      | UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, II |

# **15 Regulatory information**

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

· Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): None of the ingredients is listed. · TSCA (Toxic Substances Control Act): ACTIVE Acetone 5-(4-Dimethylaminobenzilidine) Rhodanine ACTIVE · Hazardous Air Pollutants None of the ingredients is listed. · 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. (Contd. on page 9)

US

Printing date 07/18/2024

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator

in Acetone

(Contd. of page 8)

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A4

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 67-64-1 Acetone

• TLV (Threshold Limit Value)

CAS: 67-64-1 Acetone

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard-determining components of labeling: Acetone · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)

*Printing date 07/18/2024* 

Reviewed on 07/18/2024

Trade name: Rhodanine Indicator

in Acetone

(Contd. of page 9)

# **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

#### · Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2 07/18/2024: Reviewed SDS for accuracy. MH/STN 07/18/2024 / 1.1 • 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) 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

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

 $\cdot$  \* Data compared to the previous version altered.