Printing date 11/15/2023

Reviewed on 11/15/2023

1 Identification

- · Product identifier
- · Trade name: AO-Original Nonylphenol Level 3 Standard
- · Article number: ARL038
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

AQUA

- Information department: Technical Coordinator
 Sherman Nelson shermann@aquasolutions.org
 Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

 \cdot Classification of the substance or mixture



Flammable Liquids 2

GHS08 Health hazard

Toxic to Reproduction 2 Aspiration Hazard 1 H361 Suspected of damaging fertility or the unborn child. H304 May be fatal if swallowed and enters airways.

H225 Highly flammable liquid and vapor.

GHS07

Skin Irritation 2H315 Causes skin irritation.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· Label elements

• *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: Cyclohexane 4-nonylphenol, branched*

(Contd. on page 2)

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. Precautionary statements Dhain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heatSparkSopen flames/hot surfaces No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking dust/fume/gas/mist/apors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clohing/eye protection/face protection. Specific treatment (see on this label). Do NOT induce vomiting. Tis exposed on concerned: Cost medical advice/attention. Call a poison center/doctor if you feel unwell. Take off containitated clothing and wash it before reuse. fish intritation occurs: Get medical advice/attention. Call a poison caller proteon chalter signly closed. Store in a well-ventilated place. Keep cool.	Hazand statements	(Contd. of page
Causes skin irritation. Suspected of damging fertility or the unborn child. May cause drowsiness or diziness. May be fatal if swallowed and enters airways. Precautionary statements Datain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/spark/sopen flames/hot surfaces No snoking. Groundbond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion proof electrical/ventilating/lighting/equipment. Use explosion or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF isposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cont. Store in a well-ventilated p	Hazard statements Highly flammable liquid and vanor	
Suspected of damaging fertility or the unborn child. May cause drowsiness or diziness. May be fatal if swallowed and enters airways. Precationary statements Obtain special instructions before use. Do not handle until all safety precations have been read and understood. 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 explosion-proof electrical/ventilating/lighting/equipment. Use only unon-sparking tools. Take precatultionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly differ handling. Use only undoors or in a vell-ventilated area. Wear protective glowes/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, prowder or water spray to exitinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Mealth = 1 Fire = 3 Reactivity = 0 Dispose of contents/container in accordan		
May cause drowsiness or diziness. May be fatal if swallowed and enters airways. Precautionary statements Obtain special instructions before use. Do not handle until all staffety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Groundbond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF Exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin (or hair): Take, ognoder ow mater spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cont. Store in a well-ventilated place. Health = 1 Fire = 3 Reactivity = 0 Dispose of contents/container in accordance with local/regional/national/international regulation		
May be fatal if swallowed and enters airways. Precautionary statements Do not handle until all sqfety precautions have been read and understood. 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 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. Wean protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomting. 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. Ff exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin riritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cont. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 DMENE magnetisticy = 0 DMENE magnetisticy = 0		
Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from headspark/open flames/hot surfaces No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/venillating/lighting/equipment. Use enly non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/kapors/spray Wash thoroughly after handling. Use only outdoors or in a well-venillated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 container tightly closed.		
Definis special instructions before use. Do not handle until all safety precoutions have been read and understood. 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 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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If shin riritation occurs: 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 locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Dispose of pland vPB assessment PHALTH 1 Health = 1 Fire = 3 Reactivity = 0 Dispervention for applicable.		
Do not handle until all safety precautions have been read and understood. Keep away from headsparks/open flames/hot surfaces No smoking. Ground/Dond container cand receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use enly 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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unvell. Take off contaminated clothing and wash it before reuse. If skin tritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 MHIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hacards Results of PBT and vPVB assessment PBT: Not applicable.	•	
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 wallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 lock up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Cher hazards Results of PBT and vPVB assessment BET: Not applicable.		
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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of five: 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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 MHIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hacards Results of PBT and vPVB assessment BET: Not applicable.		
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 difer handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep conol. Store locked up. Dispose of contentis/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 UMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment BBT: Not applicable.		
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 is wallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPVB assessment PBT: Not applicable.		
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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hazards Reusitis of PBT and vPVB assessment BPT: Not applicable.		
Avoid breathing dust/jume/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 swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Dispose of scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Dispose of PBT and vPVB assessment PBT: Not applicable.		
Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Mange of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 solves or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) WIMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Dispose of spreed of - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Dispose of a well-vell advice of the systems Reactivity = 0 Dispose of a well-vell advice of a systems Reactivity = 0 Dispose of a well-vell advice of a systems PIT: Not applicable.		
Wear protective gloves/protective clothing/eye protection/face protection. ff swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Coher hazards Results of PBT and vPvB assessment PBT: Not applicable.		
If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Specific treatment (see on this label). Do NOT induce vomiting. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Do NOT induce vomiting. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) Image: Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Image: Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) Image: Health = 1 Fire = 3 Reactivity = 0 Other hazards Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		wer.
Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Take off contaminated clothing and wash it before reuse. If skin irritation occurs: 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 locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Fire = 3 Reactivity = 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.		
The case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale $0 - 4$) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale $0 - 4$) HEALTH 1 Health = 1 FIRE 3 REACTIVITY 0 Chter hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 FIRE 3 REACTIVITY 0 Cher hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Classification system: NFPA ratings (scale $0 - 4$) Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale $0 - 4$) HEALTH 1 Health = 1 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		tions
NFPA ratings (scale $0 - 4$)Image: Health = 1 Fire = 3 Reactivity = 0HMIS-ratings (scale $0 - 4$)HEALTH I HEALTH I Fire = 3 Reactivity = 0HEALTH I Fire = 3 Reactivity = 0Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Health = 1 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Fire = 3 Reactivity = 0 HMIS-ratings (scale $0 - 4$) HEALTH 1 Health = 1 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
1 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. PBT		
HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	Fire = 3	
HEALTH 1 Health = 1 FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. PBT: Not applicable.	\mathbf{U} Reactivity = 0	
HEALTH 1 Health = 1 FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. PBT: Not applicable.	HMIS-ratings (scale 0 - 4)	
FIRE 3 Fire = 3 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
REACTIVITY Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
Results of PBT and vPvB assessment PBT: Not applicable.	$REACTIVITY[\mathbf{U}] Reactivity = 0$	
PBT: Not applicable.	Other hazards	
PBT: Not applicable.	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.

(Contd. on page 3)

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

(Contd. of page 2)

99.8%

0.2%

· Dangerous components:

CAS: 110-82-7 Cyclohexane

CAS: 84852-15-3 4-nonylphenol, branched

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 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.
- 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

	ons, protective equipment and emergency procedures quipment. Keep unprotected persons away.	
• Environmental pr		
	luct to reach sewage system or any water course.	
	authorities in case of seepage into water course or sewage system.	
	ter sewers/ surface or ground water.	
	erial for containment and cleaning up:	
	l-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	ated material as waste according to section 13.	
Ensure adequate v		
· Reference to othe		
	nformation on safe handling.	
v	nformation on personal protection equipment.	
	disposal information.	
•	Criteria for Chemicals	
· PAC-1:		
CAS: 110-82-7	Cyclohexane	300 ppm
CAS: 84852-15-3	4-nonylphenol, branched	3.9 mg/m ³
· PAC-2:		
CAS: 110-82-7	Cyclohexane	1700* ppm
		(Contd. on page 4)

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

CAS: 84852-15-3	4-nonylphenol, branched	(Contd. of page 3) 43 mg/m^3
· PAC-3:		
CAS: 110-82-7	Cyclohexane	10000** ppm
CAS: 84852-15-3	4-nonylphenol, branched	260 mg/m ³

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:
- 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

PEL	Long-term value: 1050 mg/m³, 300 ppm	
REL	Long-term value: 1050 mg/m³, 300 ppm	
	Long-term value: 100 ppm BEI	
0	dients with biological limit values:	
CAS:	110-82-7 Cyclohexane	
BEI 1	NIC-50 mg/g creatinine	
1	LD50 Intraperitoneal: -	
1	Time: end of shift at end of workweek	
1	LD50: NIC-1.2-Cyclohexanediol (nonspecific)	
	ional information: The lists that were valid during the creation were used as basis.	
• Additi	ional information: The fists that were valid during the creation were used as basis.	

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

(Contd. of page 4)

· 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. Store protective clothing separately. Avoid contact with the skin. 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 • 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

· Information on basic physical and · General Information	chemical properties	
· Appearance:	.	
Form:	Liquid	
Color:	Colorless	
· Odor:	Organic	
• Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	6.4 °C (43.5 °F)	
Boiling point/Boiling range:	81 °C (177.8 °F)	
· Flash point:	-18 °C (-0.4 °F)	

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

	(Contd. of page
Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	260 °C (500 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits: Lower:	1.2 Vol %
Upper:	8.3 Vol %
· Vapor pressure at 20 °C (68 °F): · Vapor pressure at 50 °C (122 °F):	104 hPa (78 mm Hg) 335 hPa (251.3 mm Hg)
· Density at 20 °C (68 °F): · Relative density · Vapor density	0.78032 g/cm³ (6.51177 lbs/gal) Not determined. Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	0.05 g/l
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity: Dynamic at 20 °C (68 °F): Kinematic:	0.94 mPas Not determined.
Solvent content: Organic solvents: VOC content:	99.8 % 99.80 % 778.8 g/l / 6.50 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: Irritant to skin and mucous membranes.

(Contd. on page 7)

⁻ US

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

• 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: 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.

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.

quids, n.o.s. (Cyclohexane, 4-nonylpheno
i

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

	(Contd. of page
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Cyclohexane, 4-nonylpheno branched)
Transport hazard class(es)	
DOT	
RAMABLE LOOD	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substance Cyclohexane
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-D
Stowage Category	В
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)	5L
Excepted quantities (EQ)	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. (CYCLOHEXANE, NONYLPHENOL, BRANCHED), 3, II

15 Regulatory information

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

(Contd. on page 9)

US —

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

	(Contd. of page 8)
· Sara	
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
Cyclohexane	ACTIVE
4-nonylphenol, branched	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.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 110-82-7 Cyclohexane

• 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.

• *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: Cyclohexane
4-nonylphenol, branched
Hazard statements
Highly flammable liquid and vapor. Causes skin irritation.
Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Ι

Printing date 11/15/2023

Reviewed on 11/15/2023

Trade name: AO-Original Nonylphenol Level 3 Standard

	(Contd. of page 9)
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 swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
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 exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: 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	1.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

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 0.0, 11-15-2023: creation date for SDS STN/CMC 11/15/2023 • 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) 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 Skin Irritation 2: Skin corrosion/irritation – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Aspiration Hazard 1: Aspiration hazard - Category 1